
Appendix A: Water Quality Calibration and Validation Floyds Fork Watershed

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Table A-1 USGS Water Quality Calibration Stations

Station	Agency	Site Name	USGS Drainage Area (mi ²)	USGS Drainage Area (acres)	WASP Segment	Type	Parameter
03297830	USGS	Floyds Fork at Highway 53	20	12736	40	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297845	USGS	Floyds Fork near Crestwood	47	29888	31	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297850	USGS	South Fork Curry's Fork at Moody Lane	1	742	206	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297855	USGS	South Fork Curry's Fork at Highway 393	9	5939	73	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297860	USGS	North Fork Curry's Fork at Stone Ridge road	10	6464	68	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297875	USGS	Ashers Run at Abbott lane near Crestwood	3	2150	77	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297880	USGS	Currys Fork near Crestwood	29	18240	65	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297900	USGS	Floyds Fork near Pee-wee Valley	80	51136	208	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297930	USGS	Floyds Fork at Echo trail bridge	104	66560	21	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297950	USGS	Long Run at Old stage coach road	6	3571	96	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297975	USGS	South Long Run at Hobbs Lane	8	4890	109	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03297980	USGS	Long Run near Fisherville	23	14400	93	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298000	USGS	Floyds Fork at Fisherville	138	88320	209	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298005	USGS	Pope lick at South poepe lick road near Fisherville	10	6202	118	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298020	USGS	Chenoweth Run at Gelhaus Lane	14	9088	124	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298100	USGS	Pope lick at pope lick road near Middletown	3	1856	120	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298110	USGS	Pope lick at Rehl road near Fisherville	1	858	121	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298120	USGS	Floyds Fork at Seatonville Road	172	110080	13	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298135	USGS	Chenoweth Run at Ruckriegal Parkway	5	3501	140	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298138	USGS	Chenoweth Run at Jeffersontown STP at Jeffersontown	6	4096	138	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298150	USGS	Chenoweth Run at Gelhaus Lane near Fern creek	12	7424	211	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298160	USGS	Chenoweth Run at Seatonville road near Jeffersontown	17	10707	135	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298200	USGS	Floyds Fork near Mt. Washington	213	136320	210	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298250	USGS	Cedar Creek at Thixton Road	11	7104	173	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298300	USGS	Pennsylvania Run at Mt. Washington	6	4096	181	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
03298470	USGS	Floyds Fork near Shepherdsville	283	181120	1	Calibration	TEMP, DO, CBOD, TN, NH ₃ , NO _x , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a

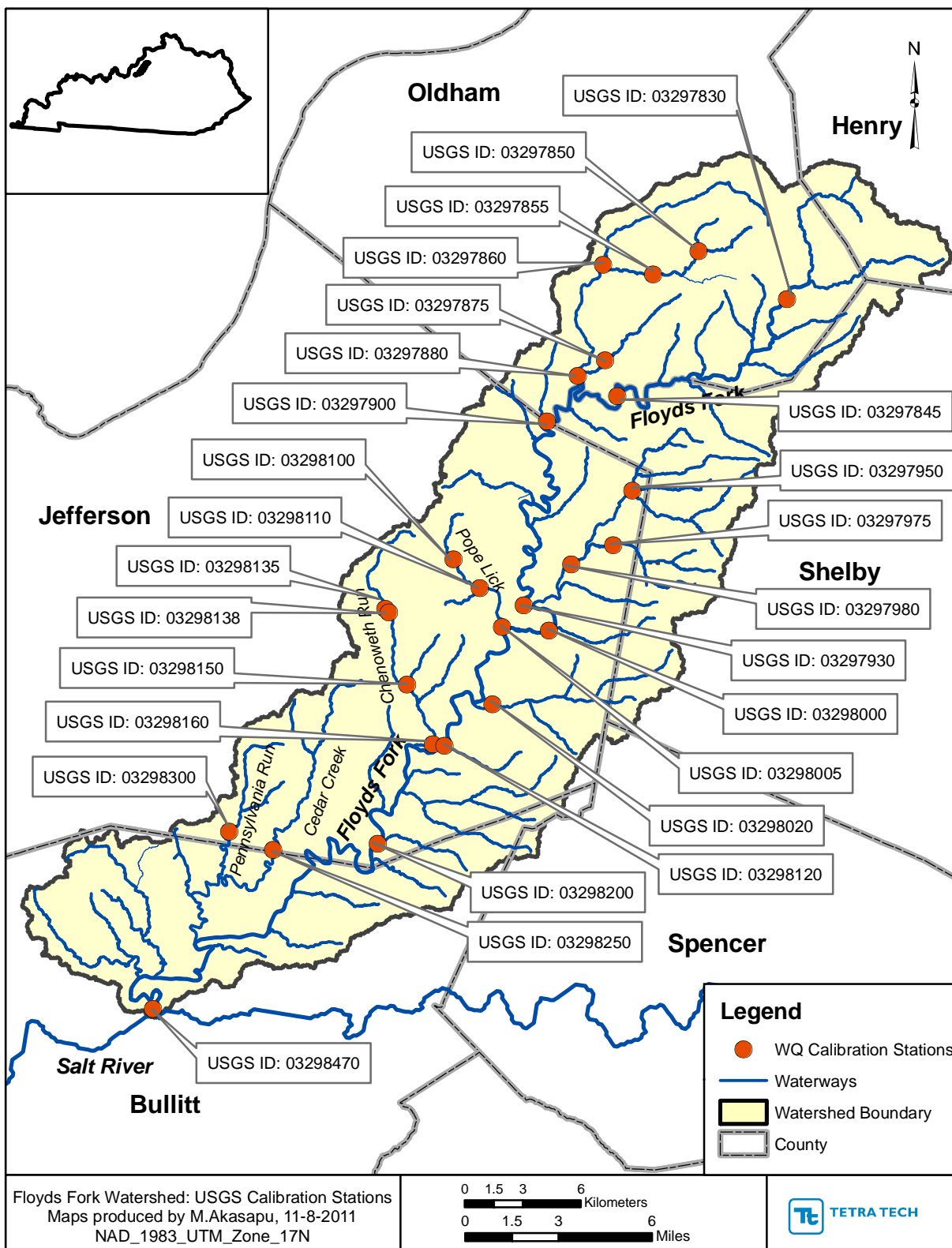


Figure A-1 USGS Water Quality Calibration Stations Utilized in the Floyds Fork Watershed Model

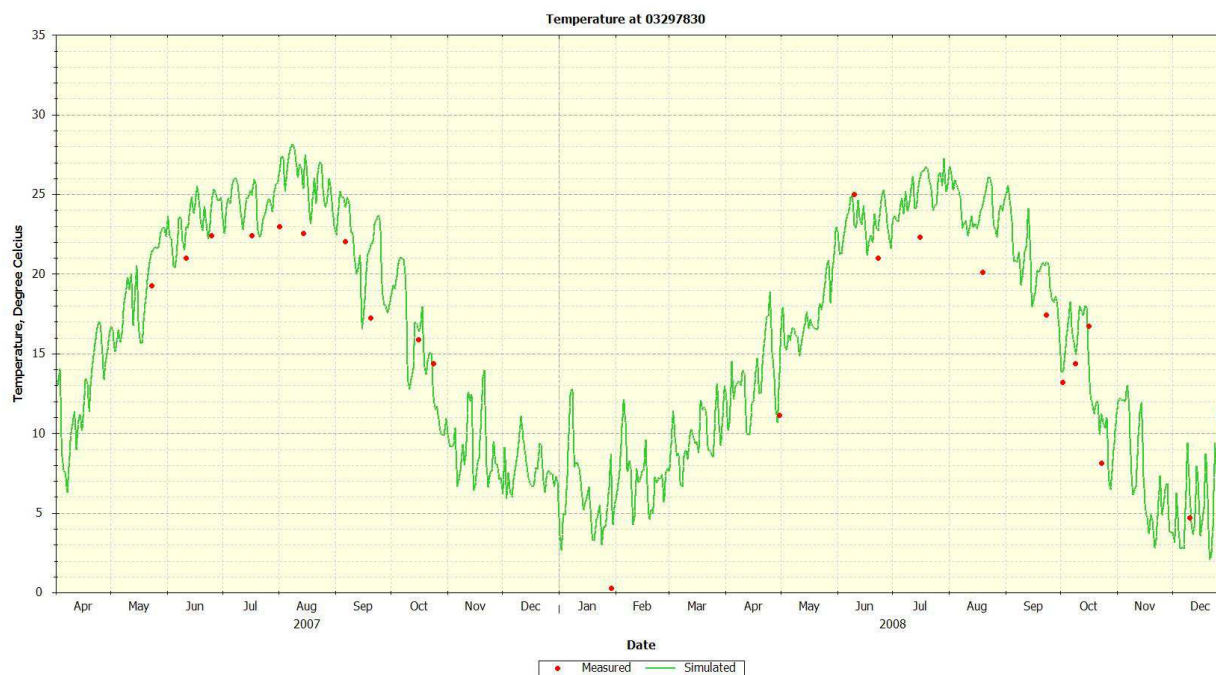


Figure A-2 Modeled vs. Observed TEMP (°C) at 03297830

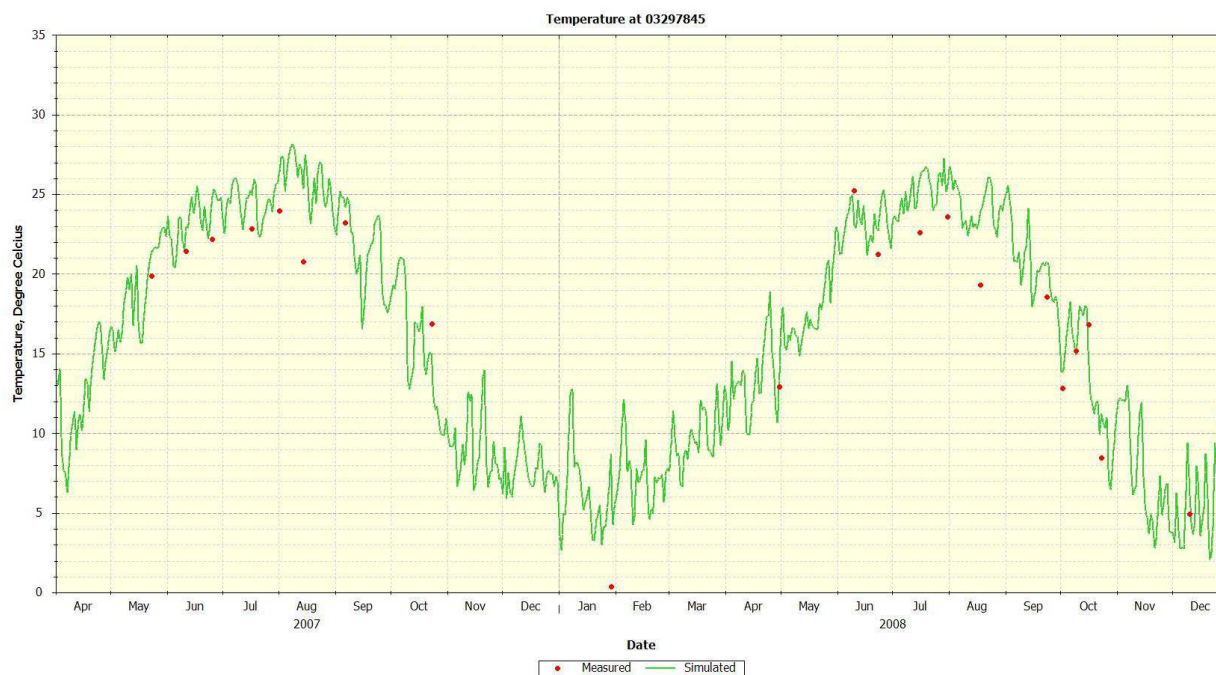


Figure A-3 Modeled vs. Observed TEMP (°C) at 03297845



Figure A-4 Modeled vs. Observed TEMP (°C) at 03297850

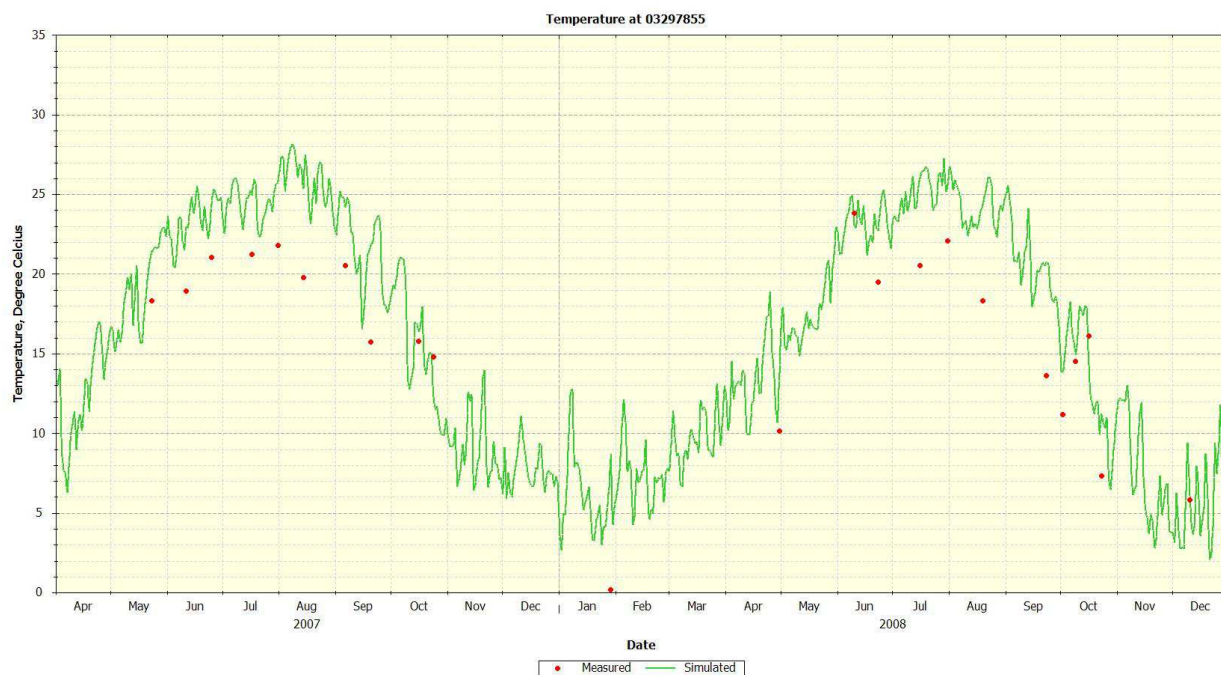


Figure A-5 Modeled vs. Observed TEMP (°C) at 03297855

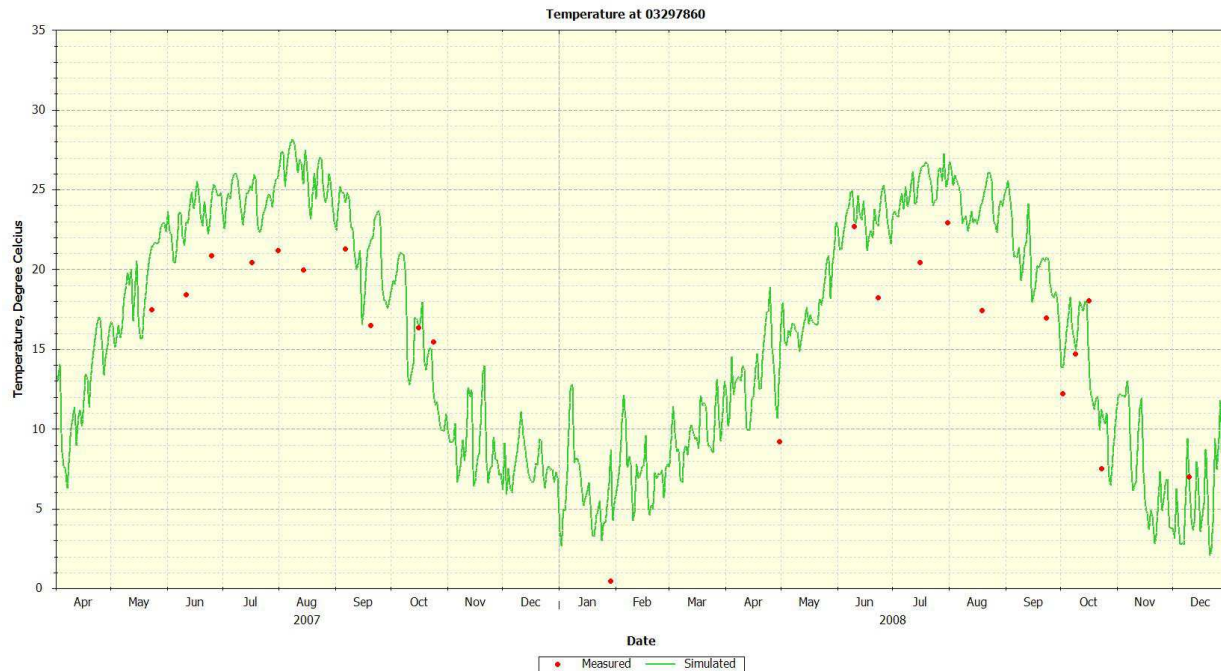


Figure A-6 Modeled vs. Observed TEMP (°C) at 03297860

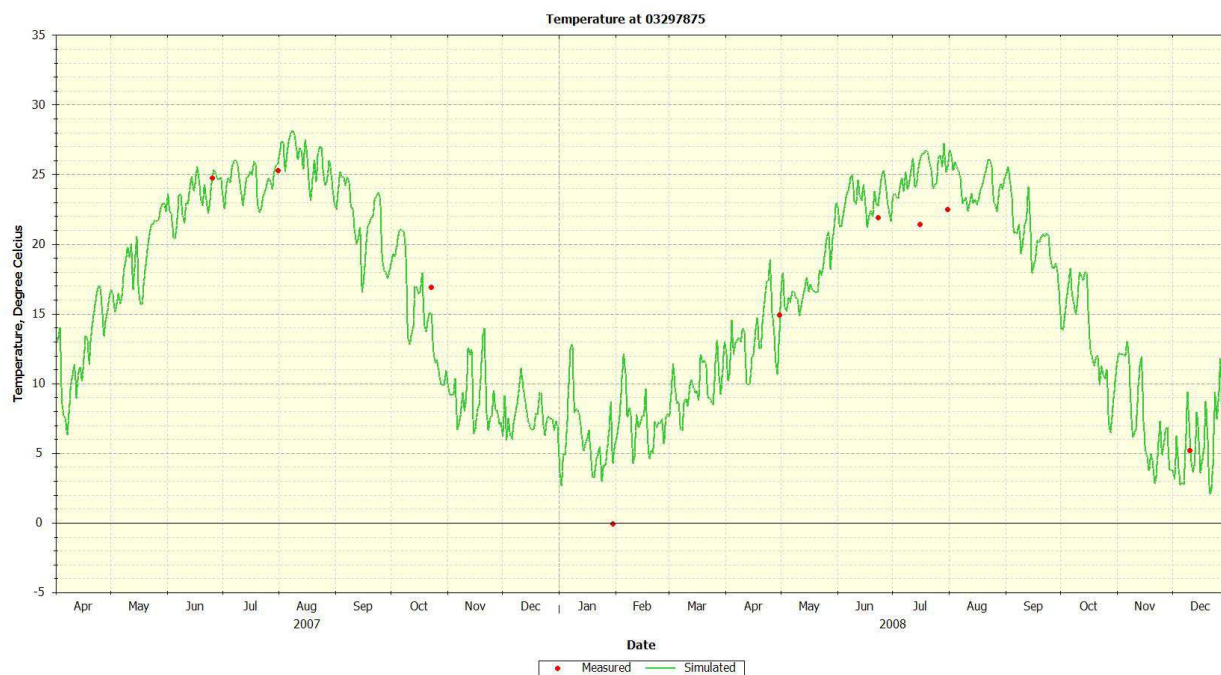


Figure A-7 Modeled vs. Observed TEMP (°C) at 03297875

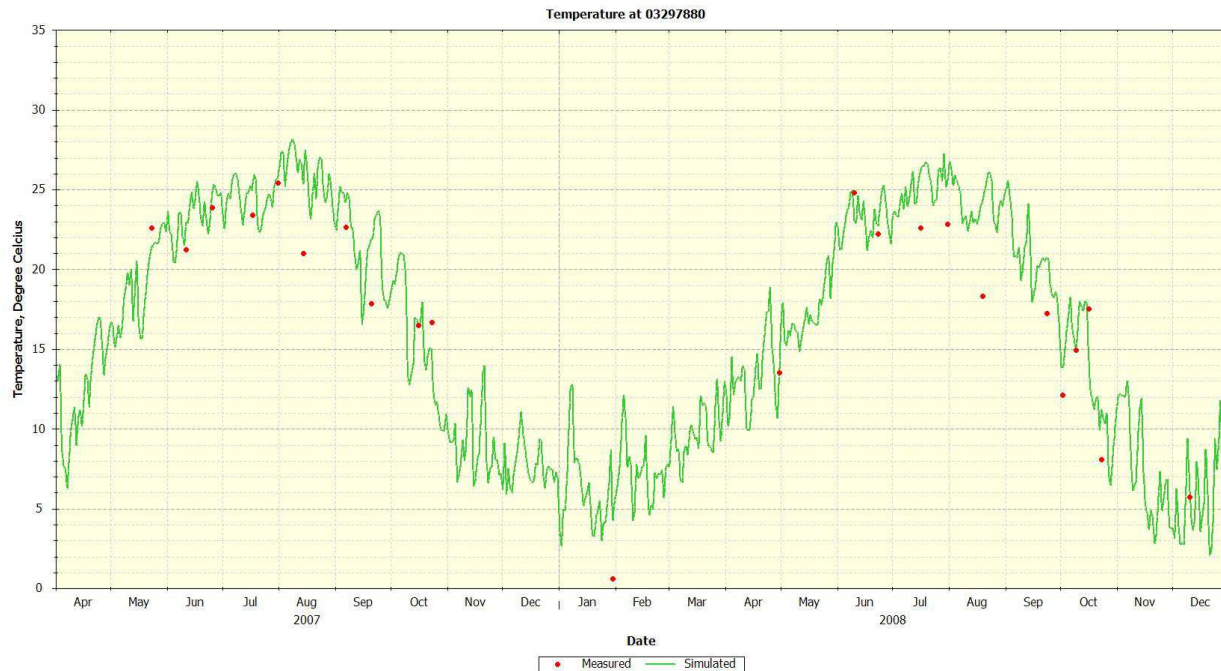


Figure A-8 Modeled vs. Observed TEMP (°C) at 03297880

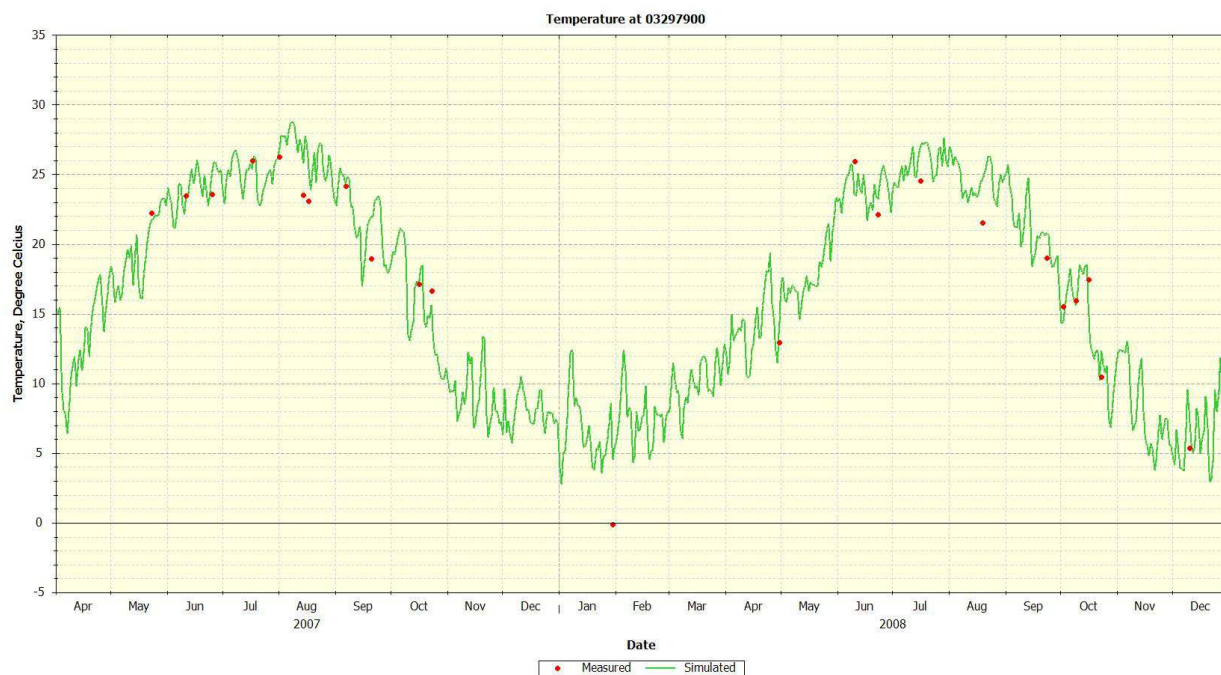


Figure A-9 Modeled vs. Observed TEMP (°C) at 03297900

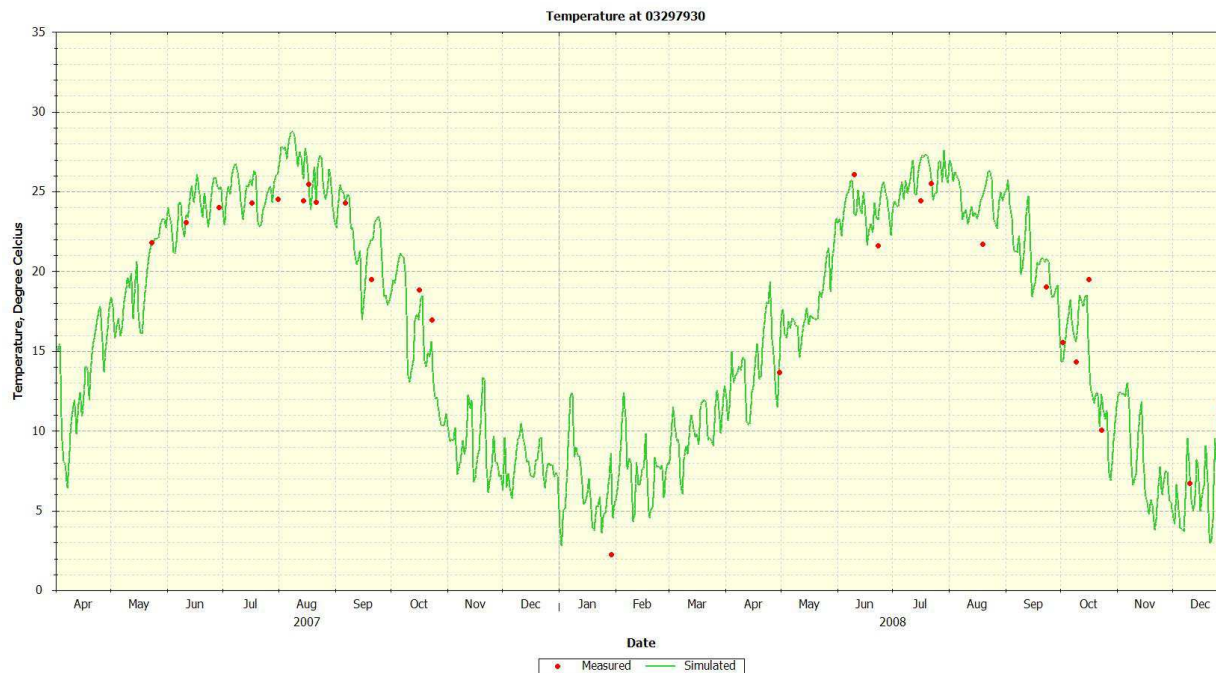


Figure A-10 Modeled vs. Observed TEMP (°C) at 03297930

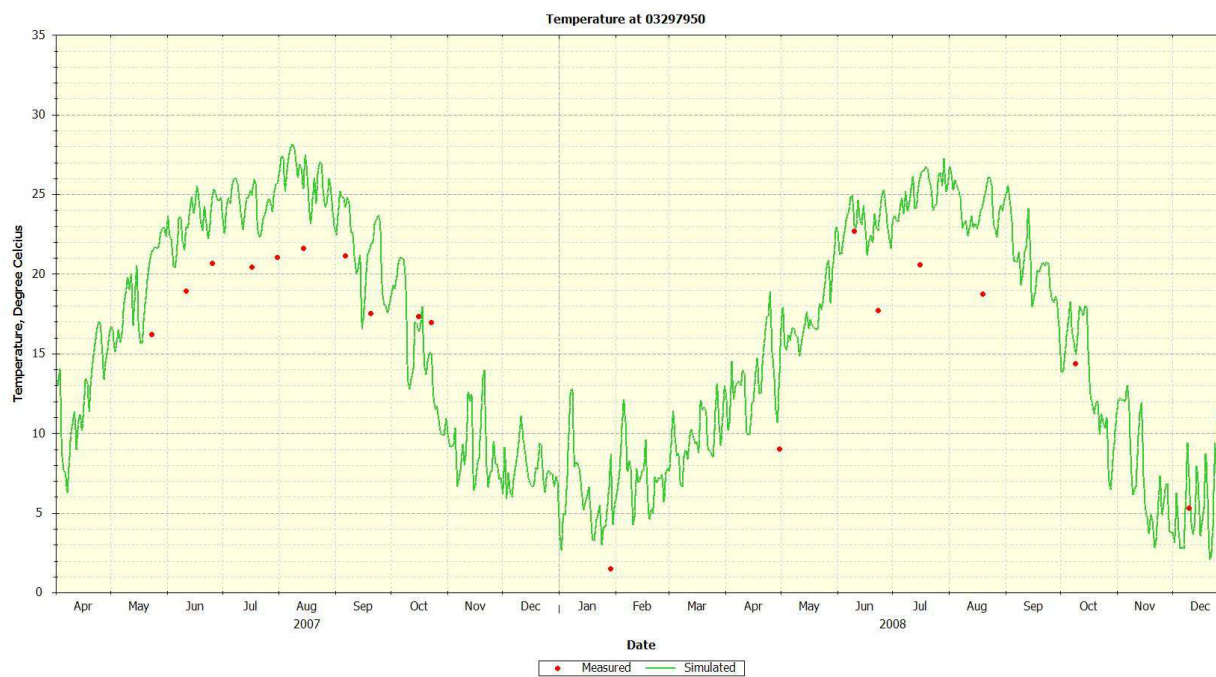


Figure A-11 Modeled vs. Observed TEMP (°C) at 03297950

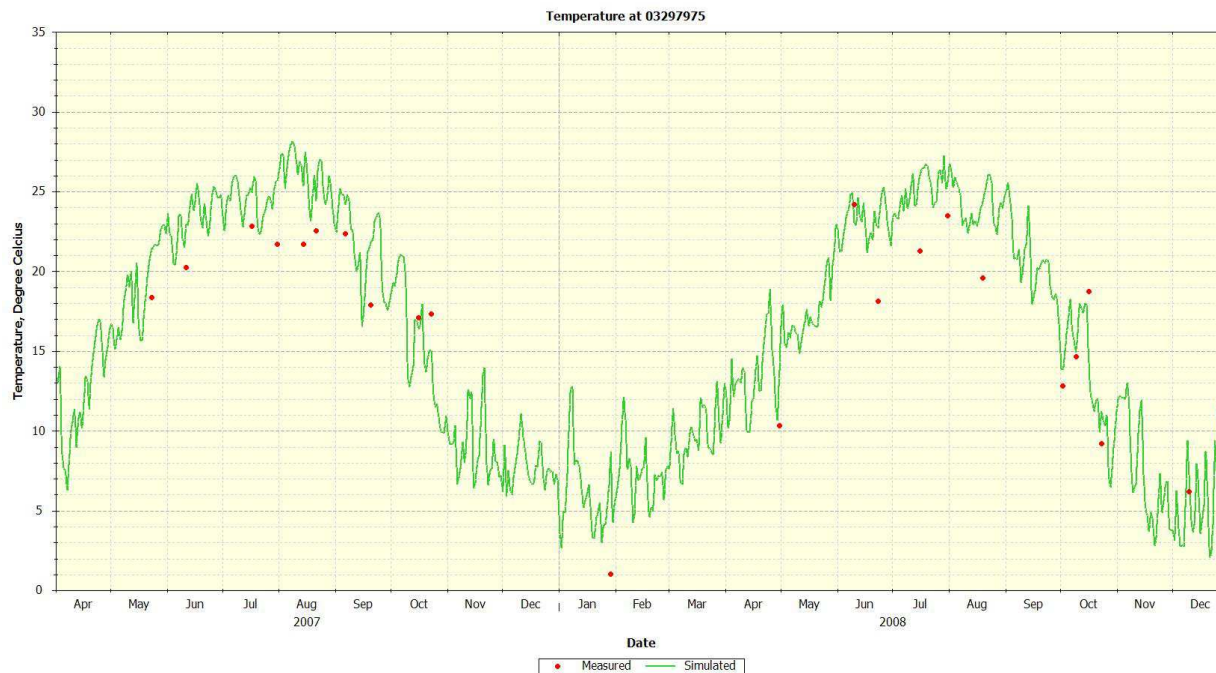


Figure A-12 Modeled vs. Observed TEMP (°C) at 03297975

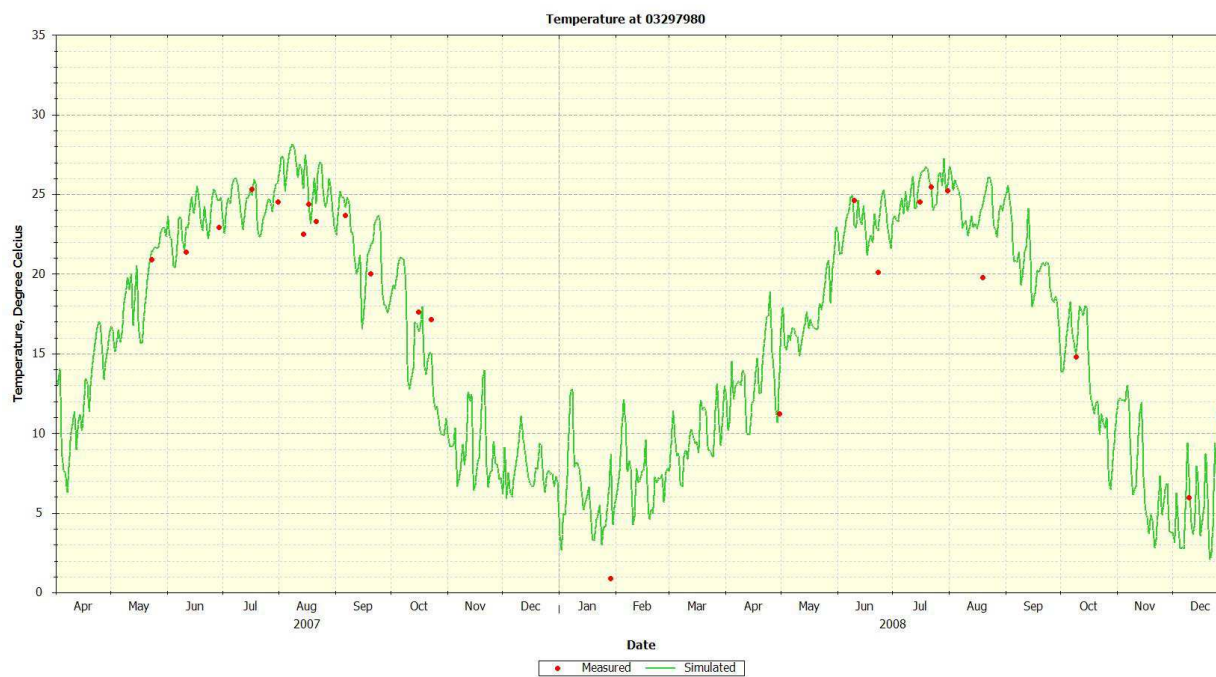


Figure A-13 Modeled vs. Observed TEMP (°C) at 03297980

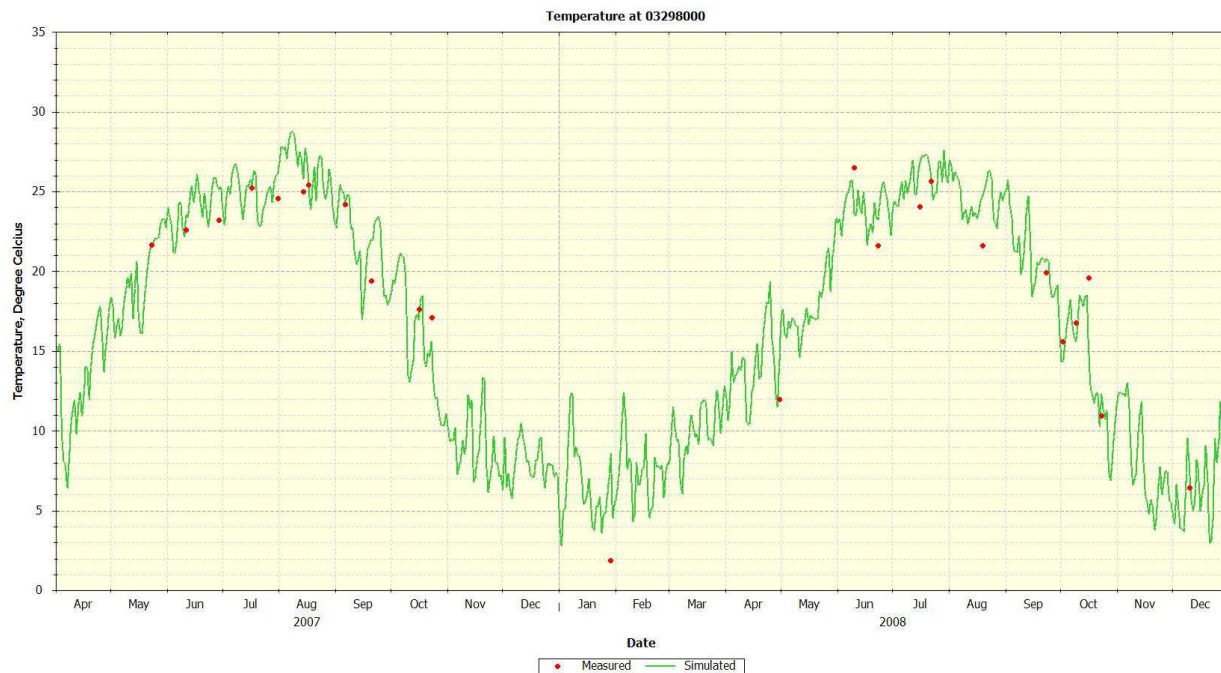


Figure A-14 Modeled vs. Observed TEMP (°C) at 03298000

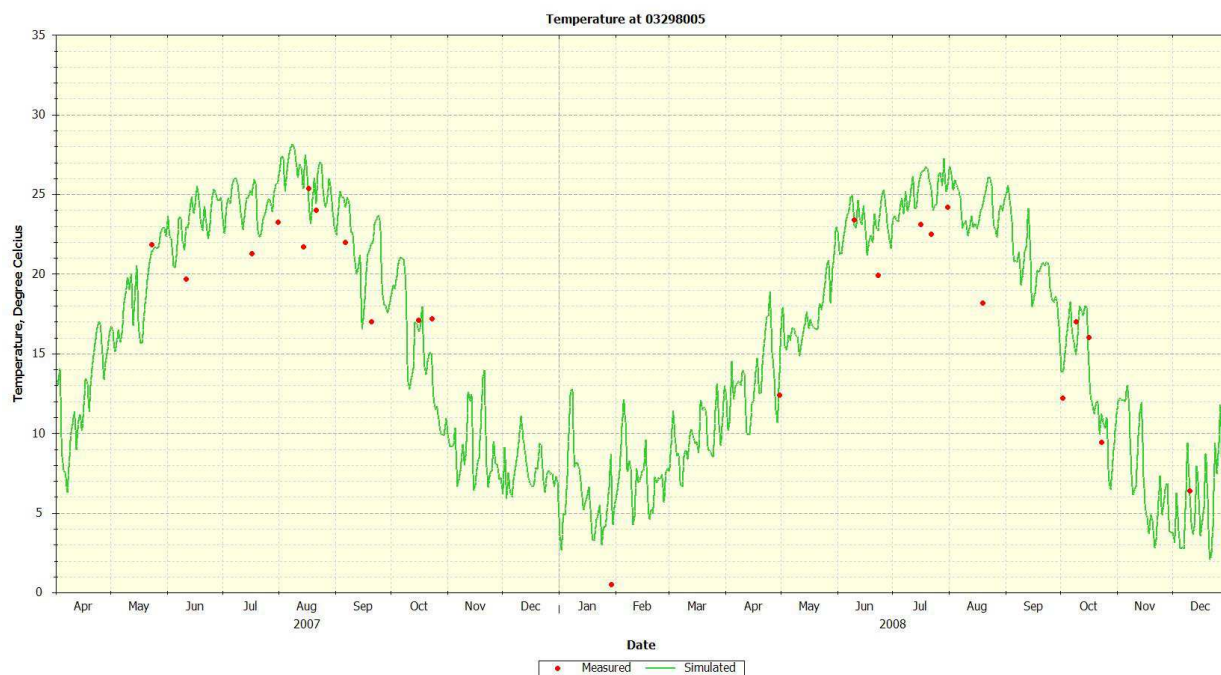


Figure A-15 Modeled vs. Observed TEMP (°C) at 03298005

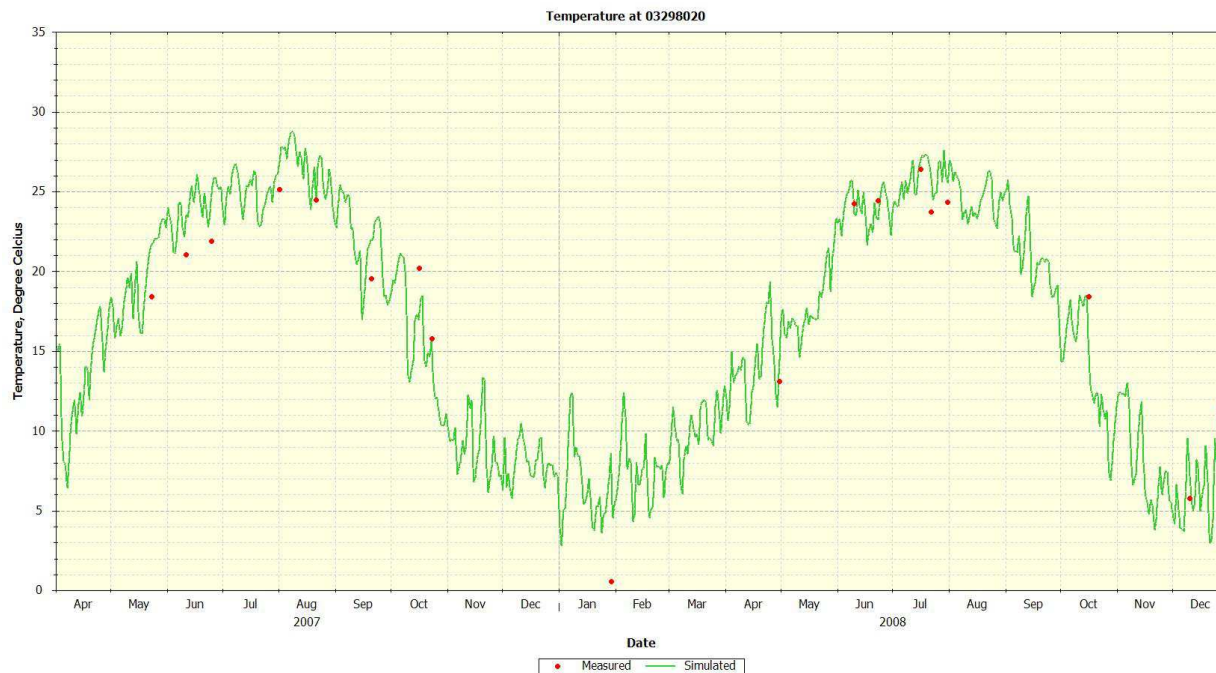


Figure A-16 Modeled vs. Observed TEMP (°C) at 03298020

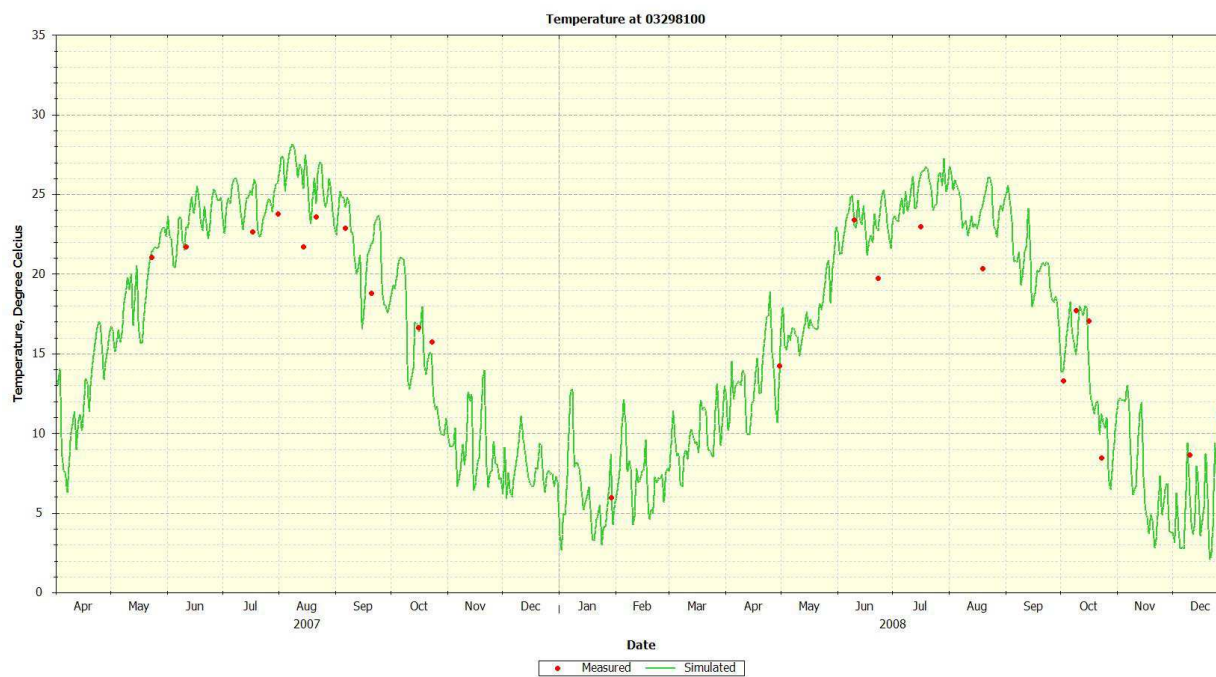


Figure A-17 Modeled vs. Observed TEMP (°C) at 03298100

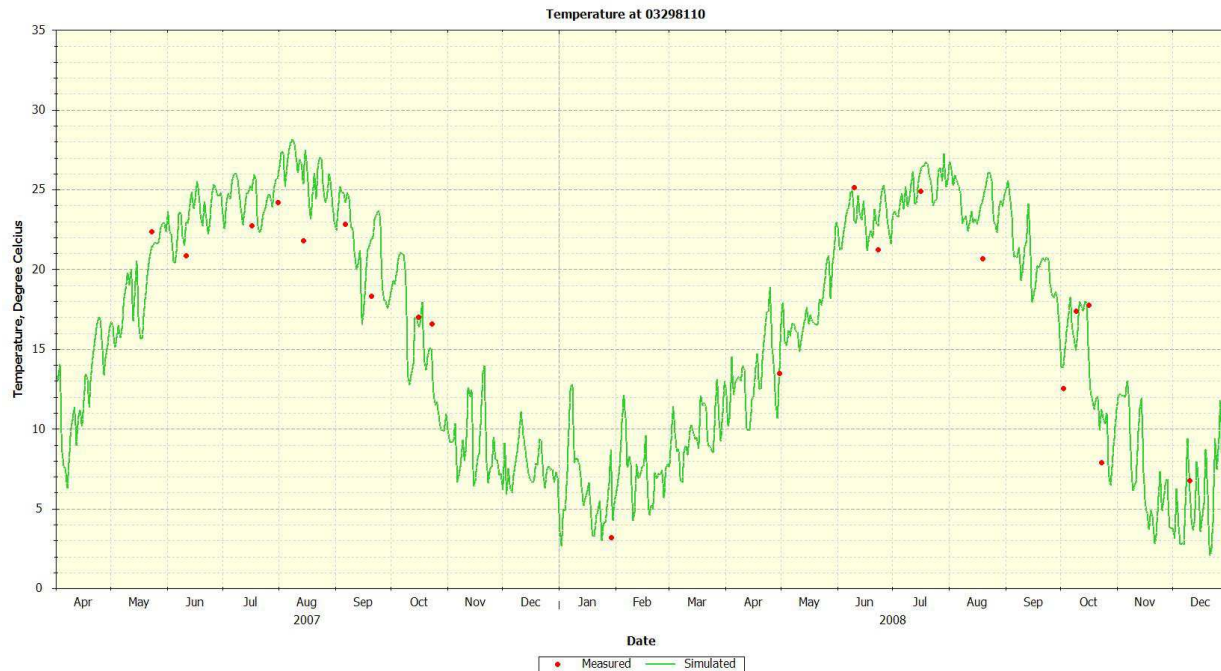


Figure A-18 Modeled vs. Observed TEMP (°C) at 03298110

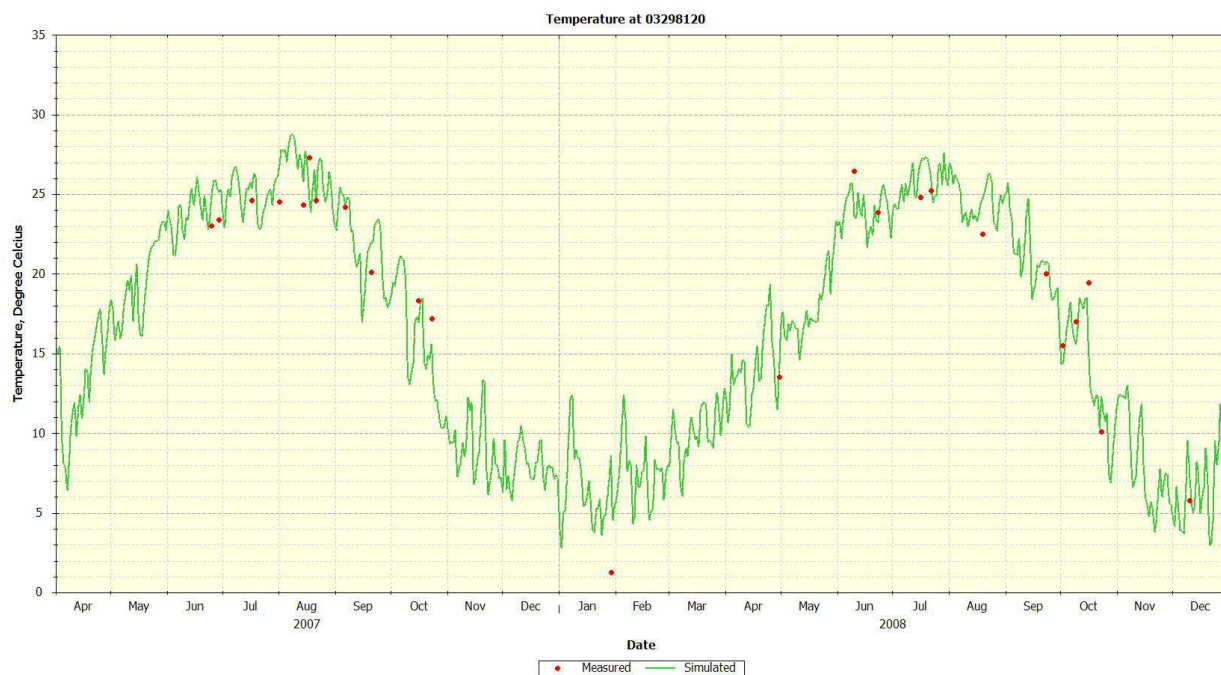


Figure A-19 Modeled vs. Observed TEMP (°C) at 03298120

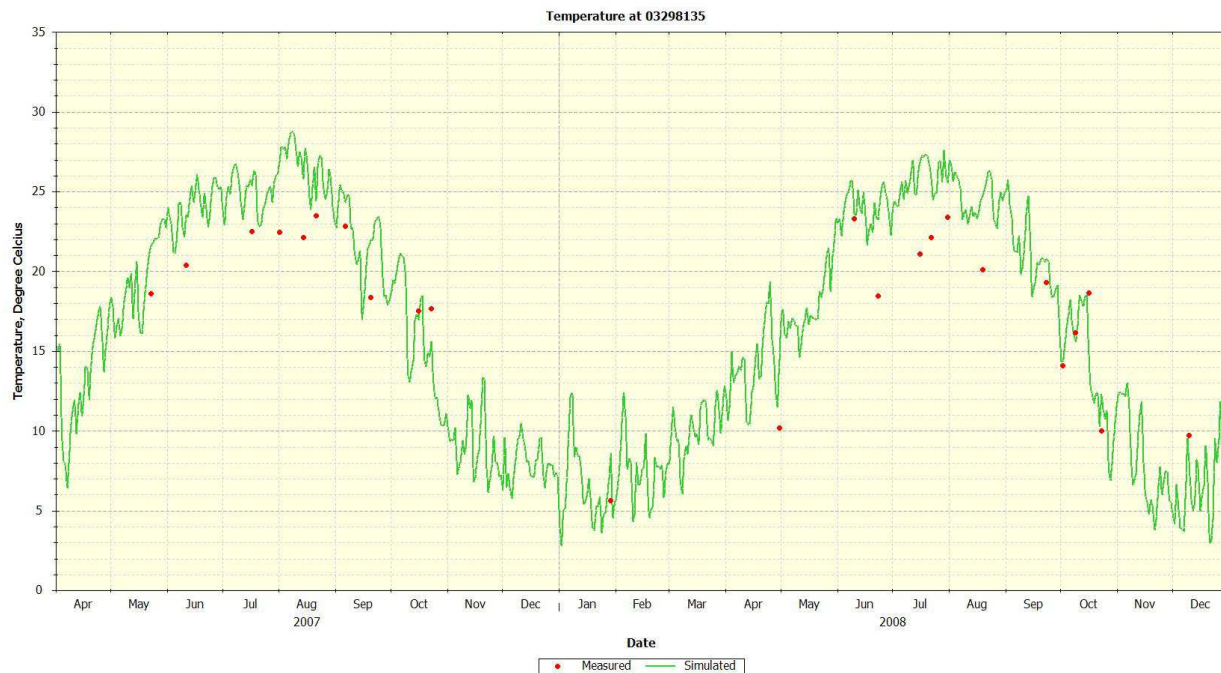


Figure A-20 Modeled vs. Observed TEMP (°C) at 03298135

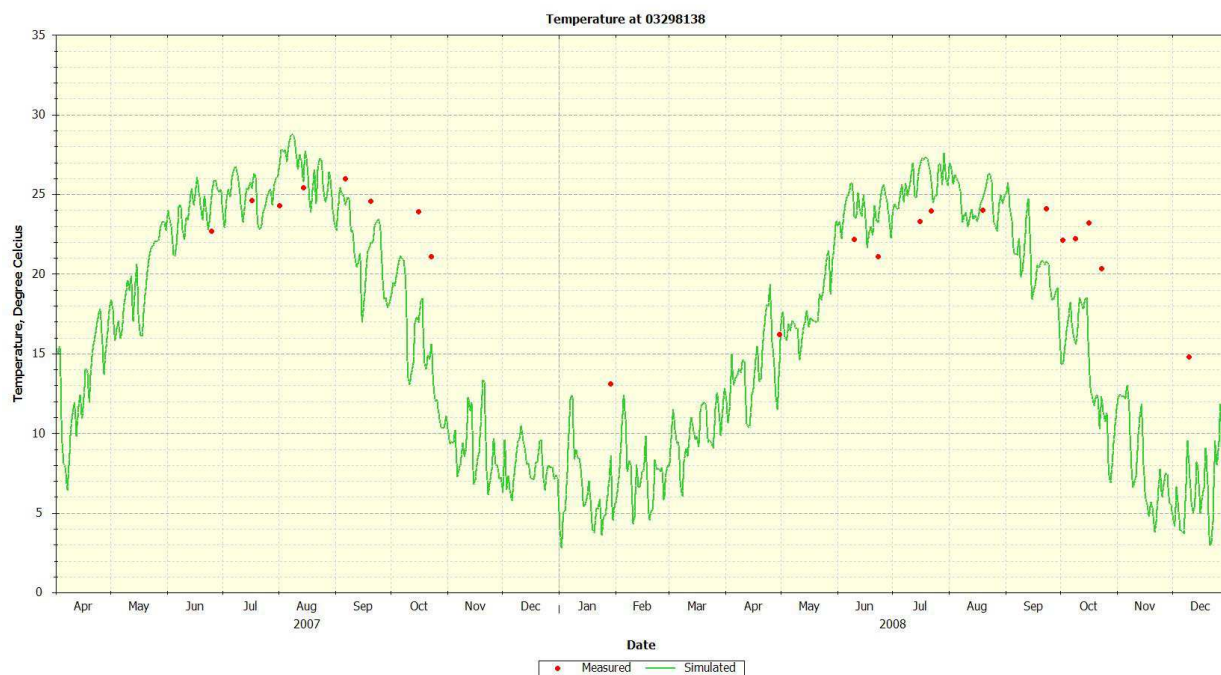


Figure A-21 Modeled vs. Observed TEMP (°C) at 03298138

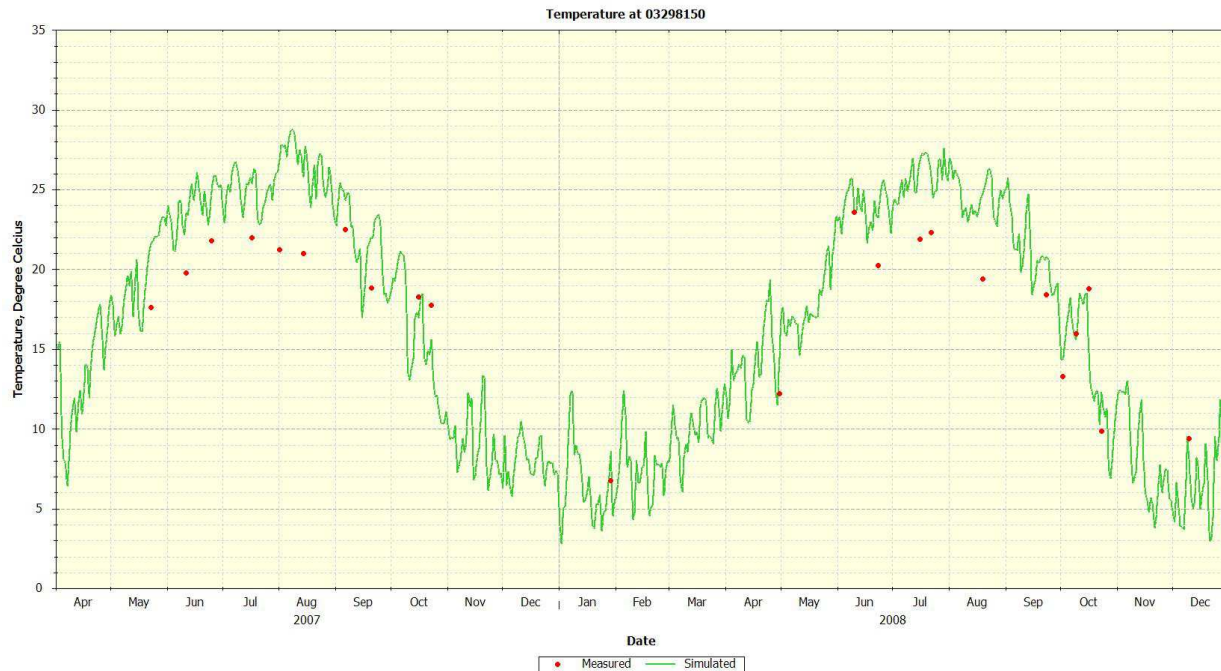


Figure A-22 Modeled vs. Observed TEMP (°C) at 03298150

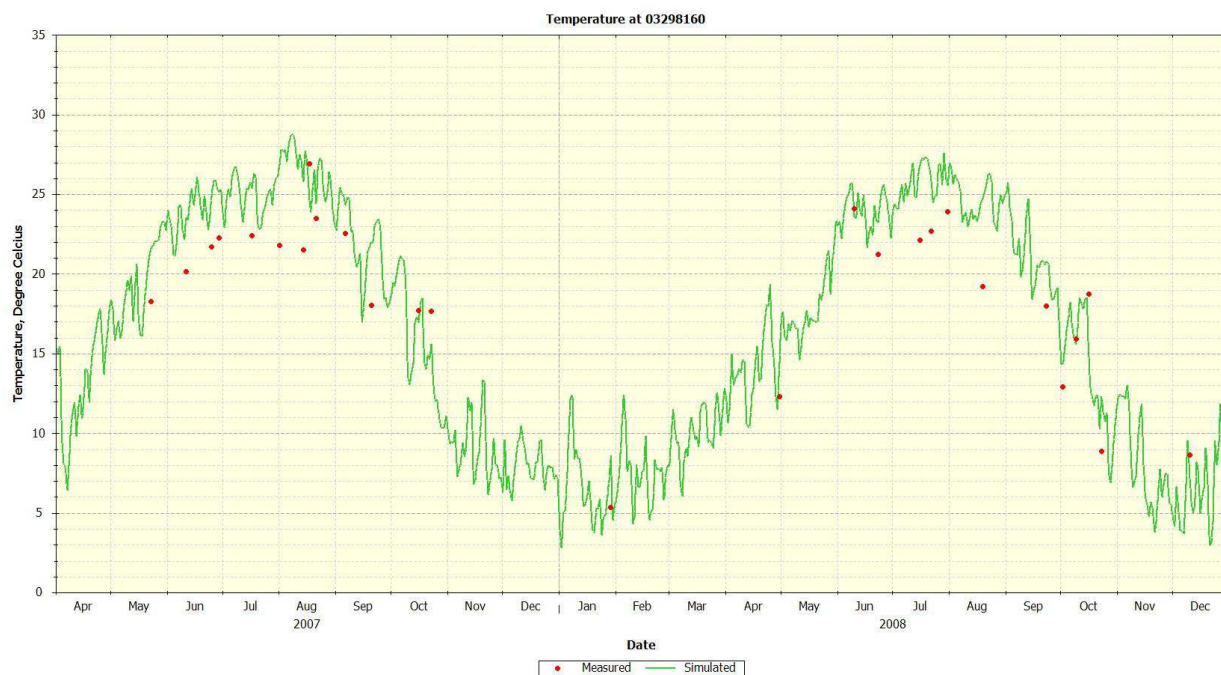


Figure A-23 Modeled vs. Observed TEMP (°C) at 03298160

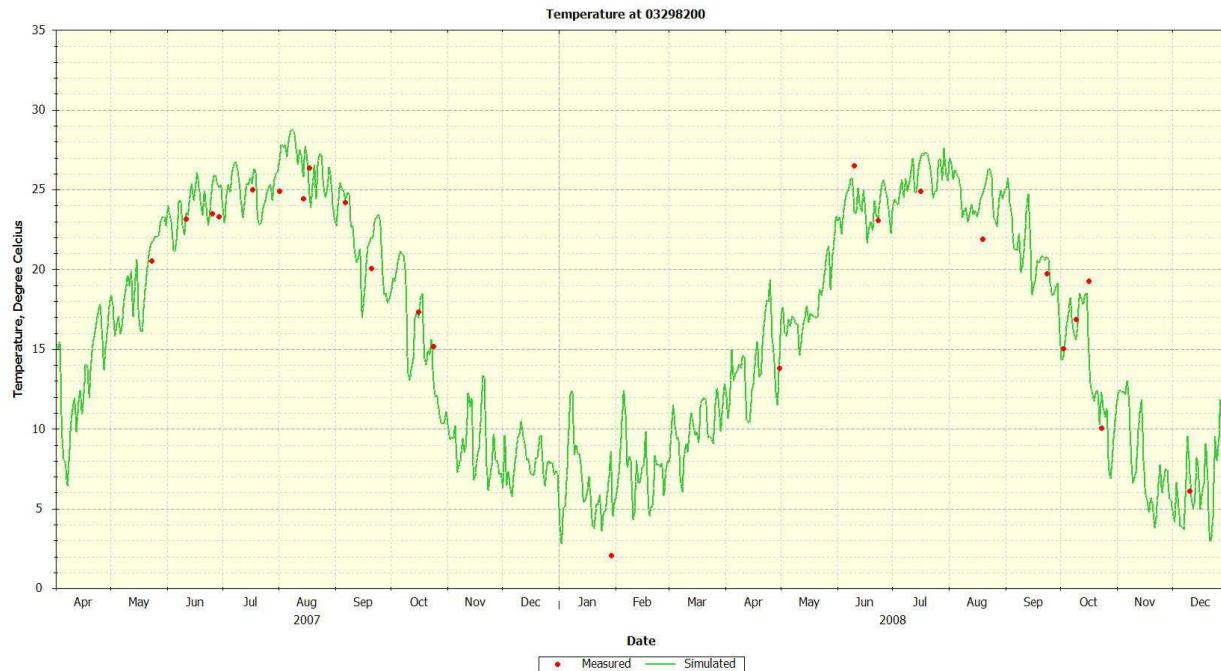


Figure A-24 Modeled vs. Observed TEMP (°C) at 03298200

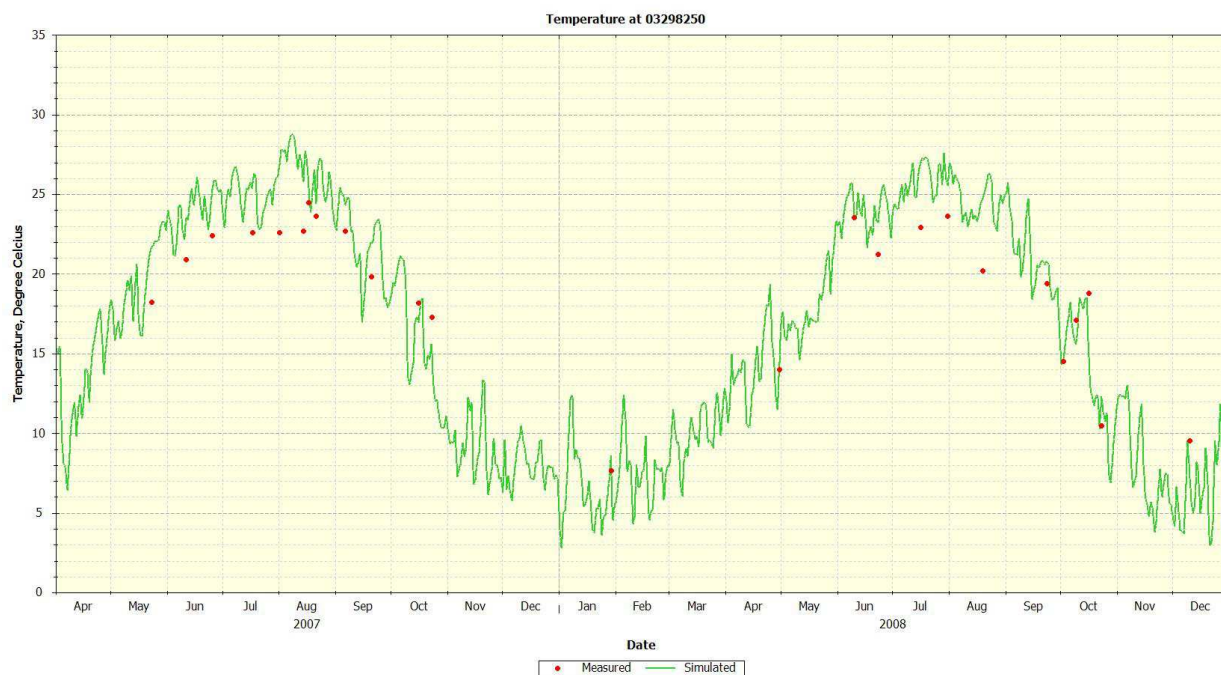


Figure A-25 Modeled vs. Observed TEMP (°C) at 03298250

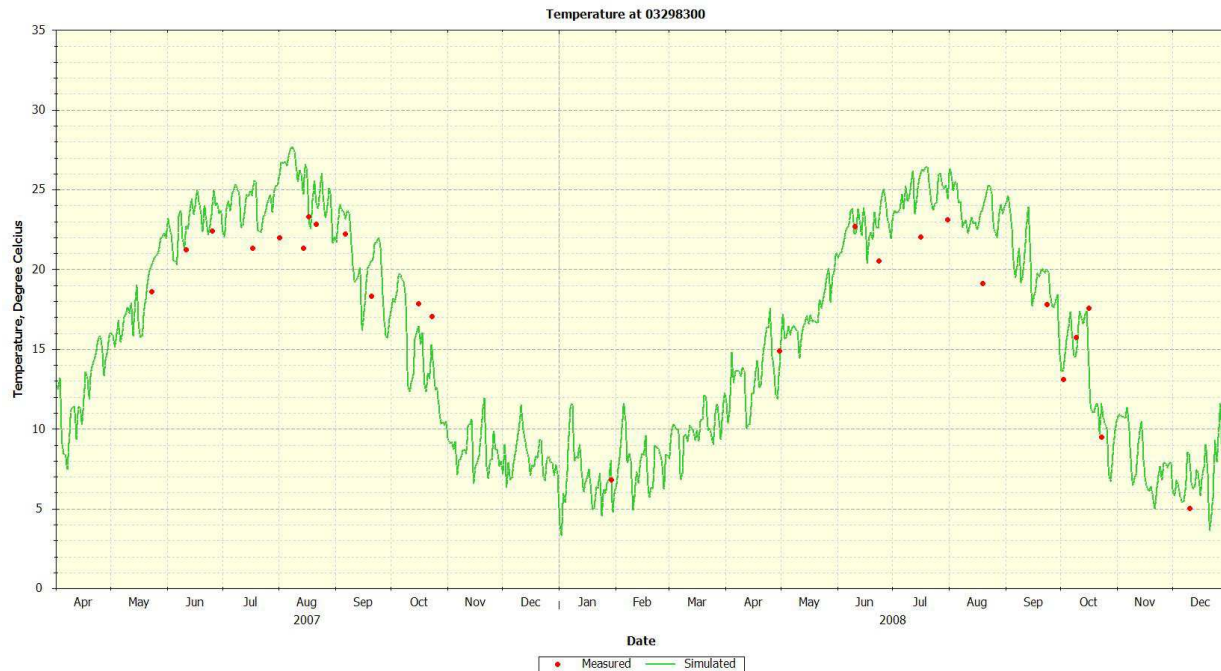


Figure A-26 Modeled vs. Observed TEMP (°C) at 03298300

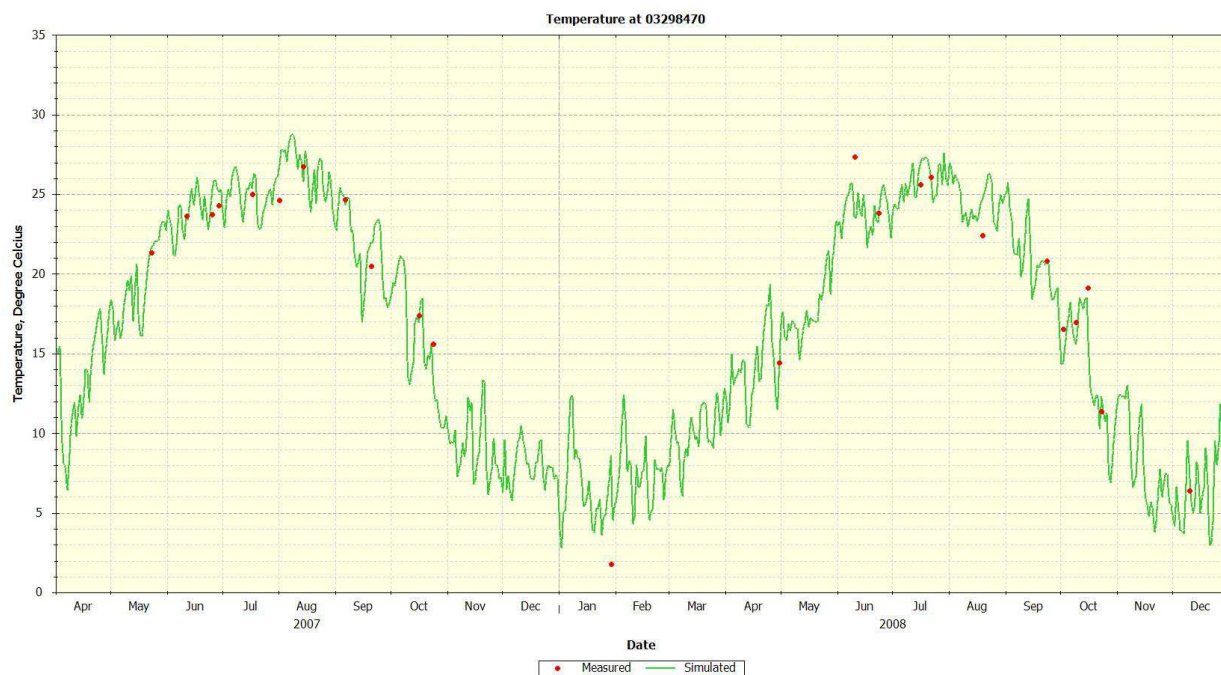


Figure A-27 Modeled vs. Observed TEMP (°C) at 03298470

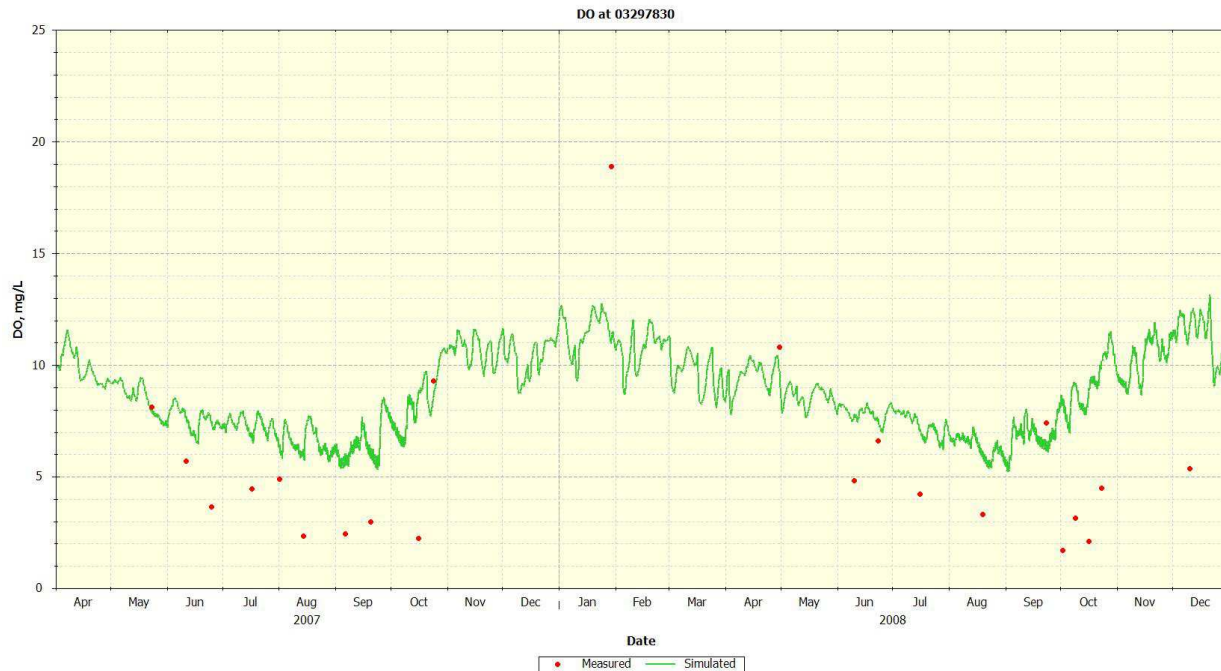


Figure A-28 Modeled vs. Observed DO (mg/L) at 03297830

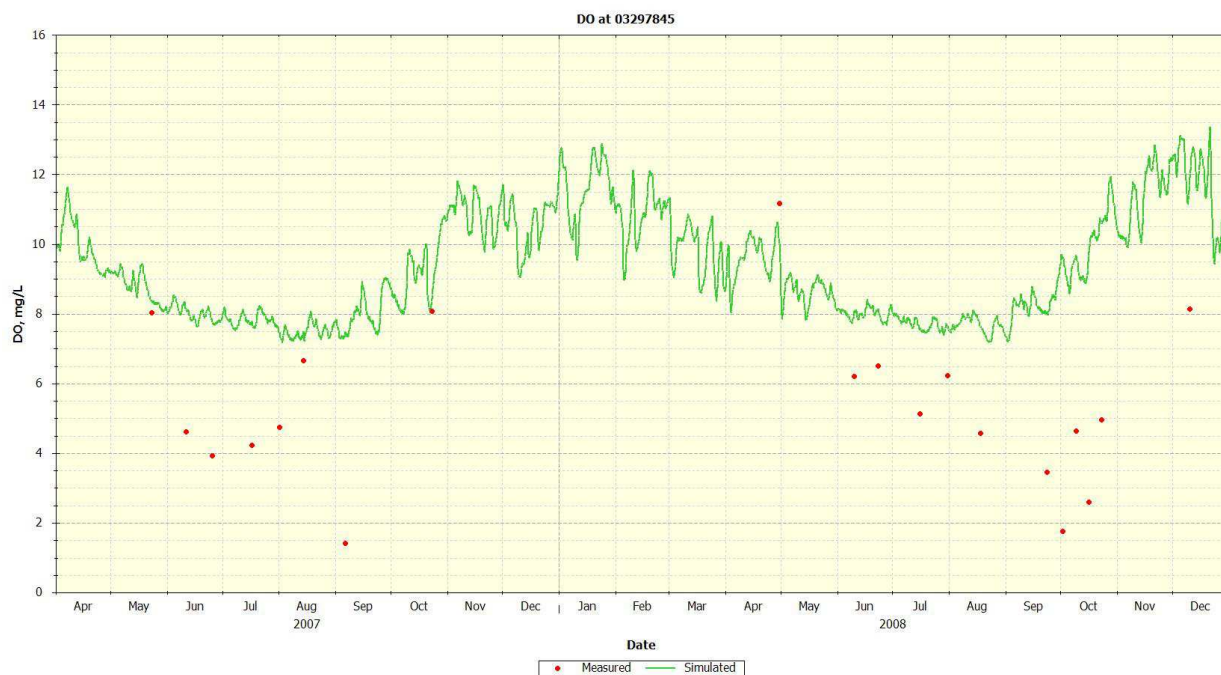


Figure A-29 Modeled vs. Observed DO (mg/L) at 03297845

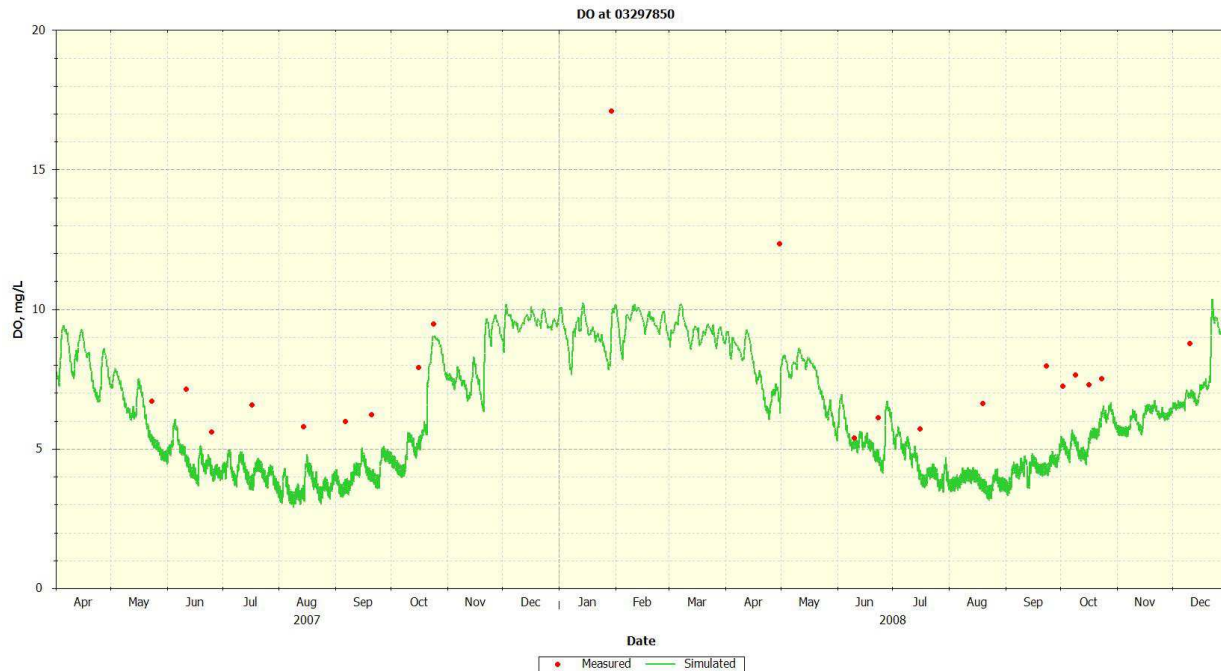


Figure A-30 Modeled vs. Observed DO (mg/L) at 03297850

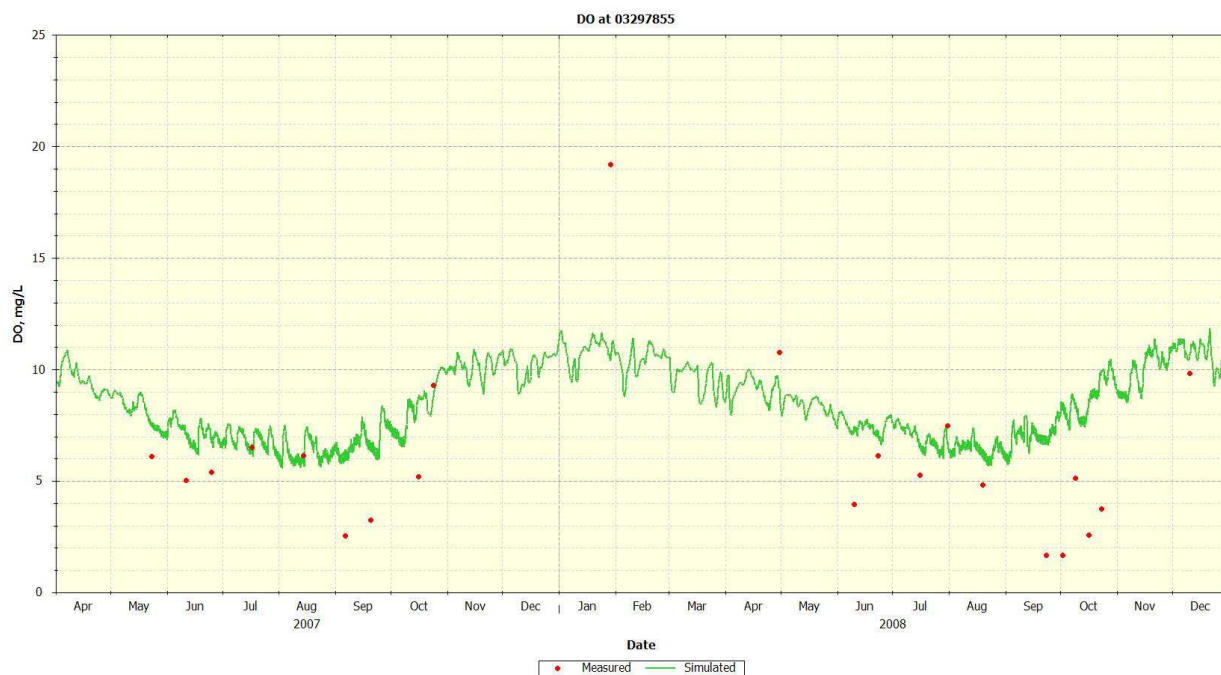


Figure A-31 Modeled vs. Observed DO (mg/L) at 03297855



Figure A-32 Modeled vs. Observed DO (mg/L) at 03297860



Figure A-33 Modeled vs. Observed DO (mg/L) at 03297875

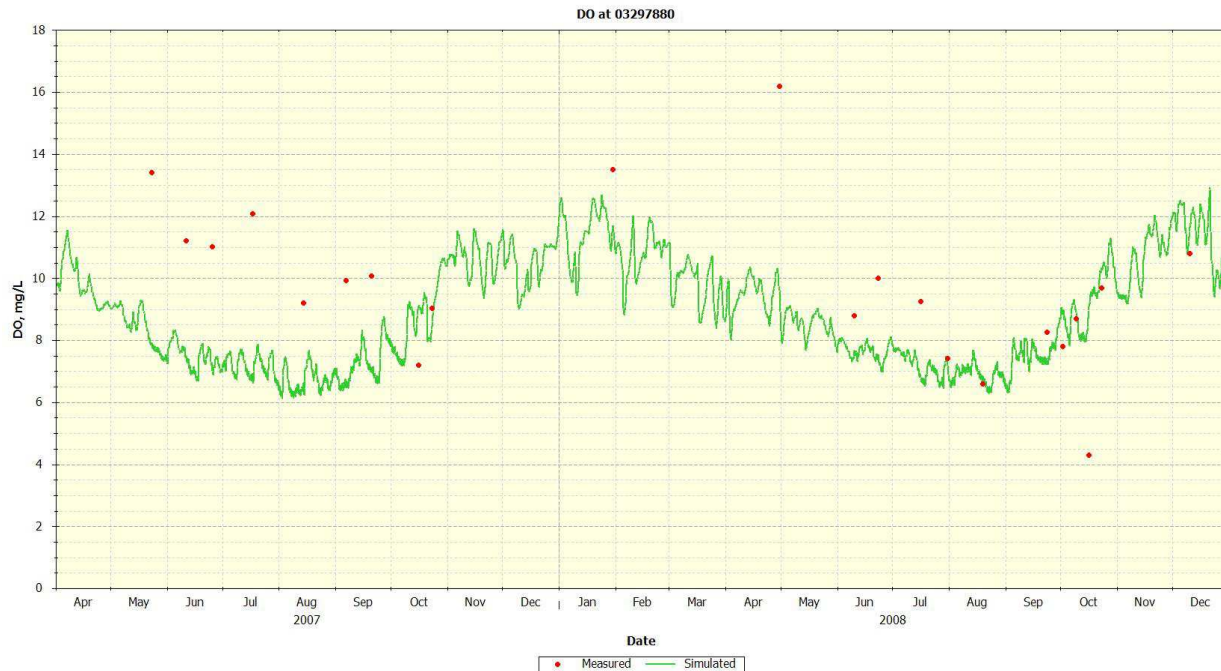


Figure A-34 Modeled vs. Observed DO (mg/L) at 03297880

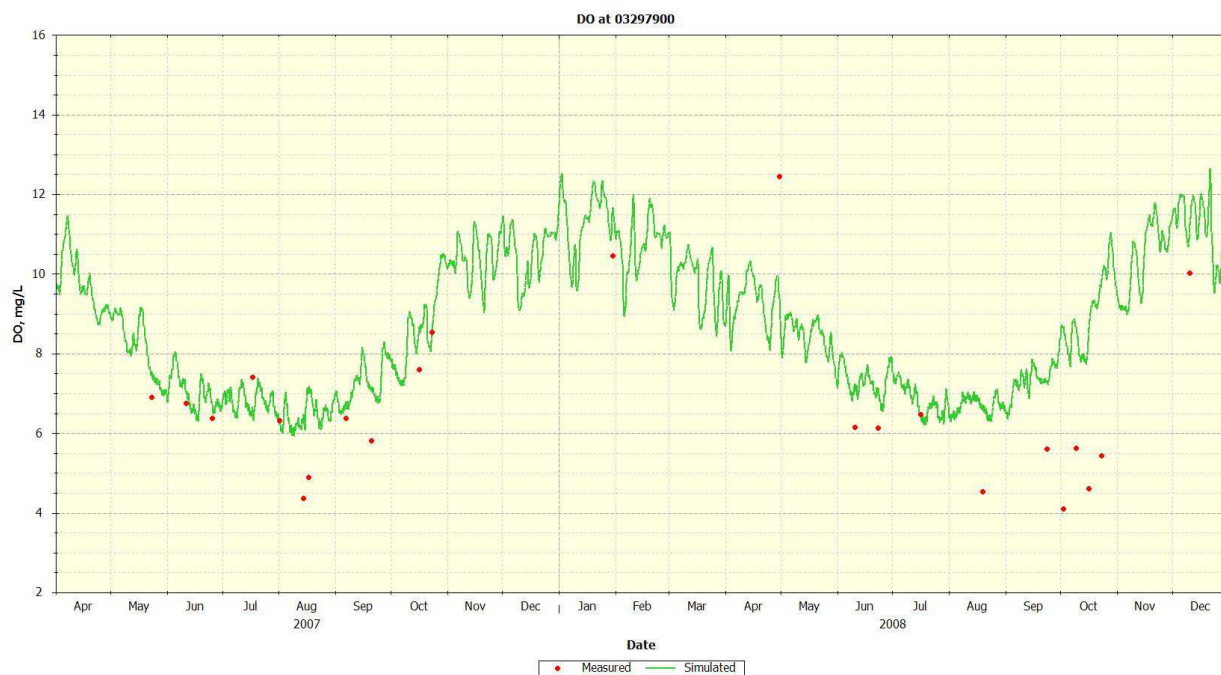


Figure A-35 Modeled vs. Observed DO (mg/L) at 03297900

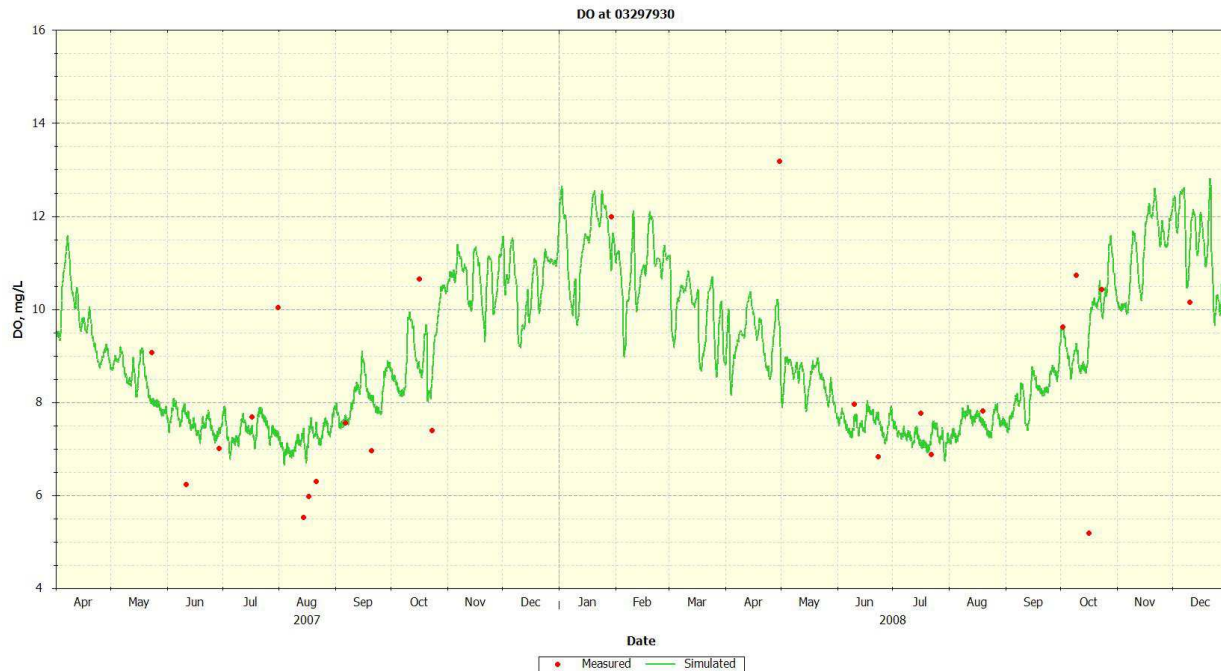


Figure A-36 Modeled vs. Observed DO (mg/L) at 03297930

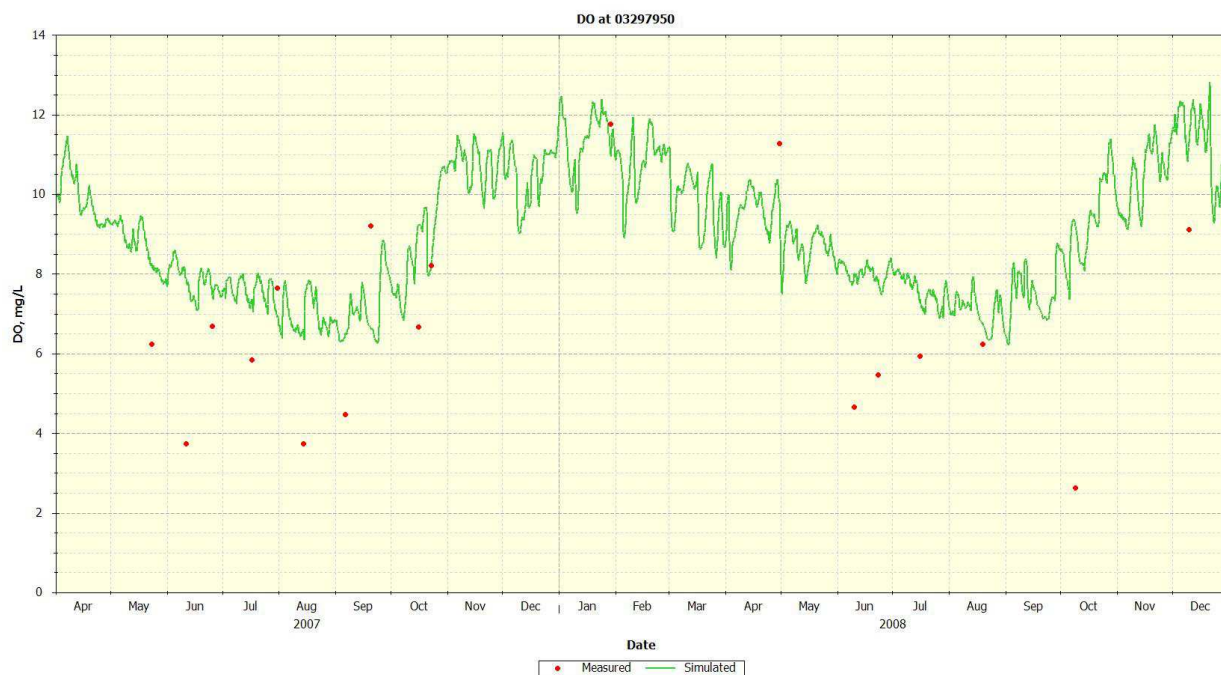


Figure A-37 Modeled vs. Observed DO (mg/L) at 03297950

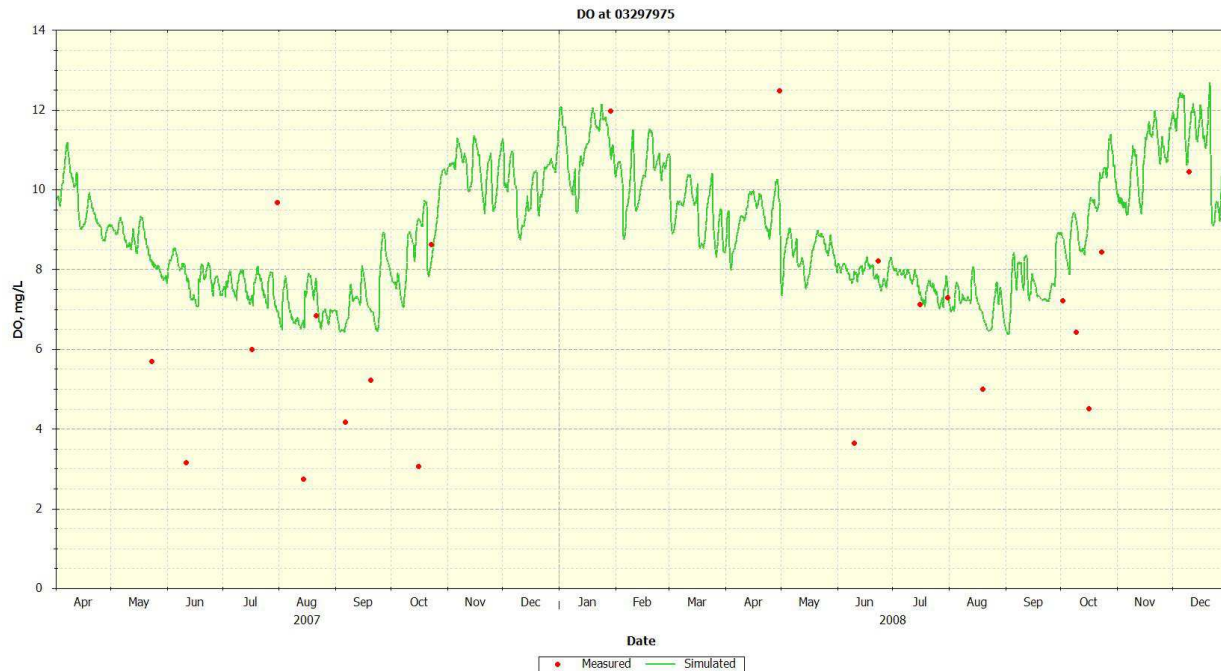


Figure A-38 Modeled vs. Observed DO (mg/L) at 03297975

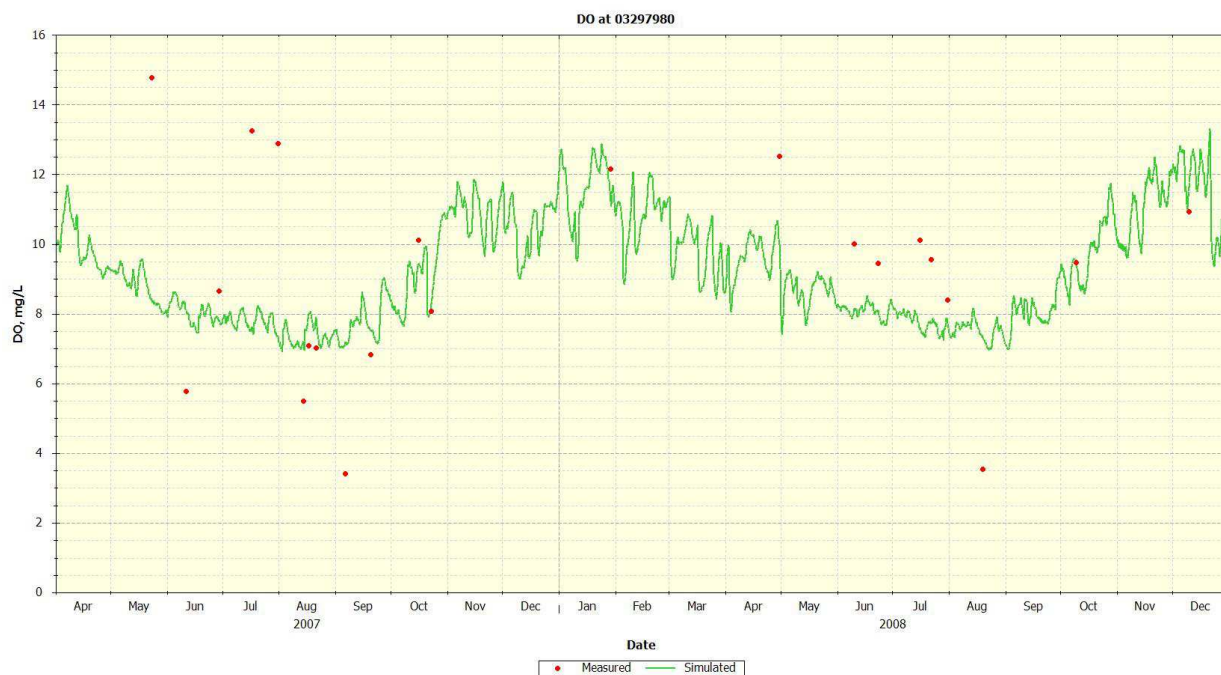


Figure A-39 Modeled vs. Observed DO (mg/L) at 03297980

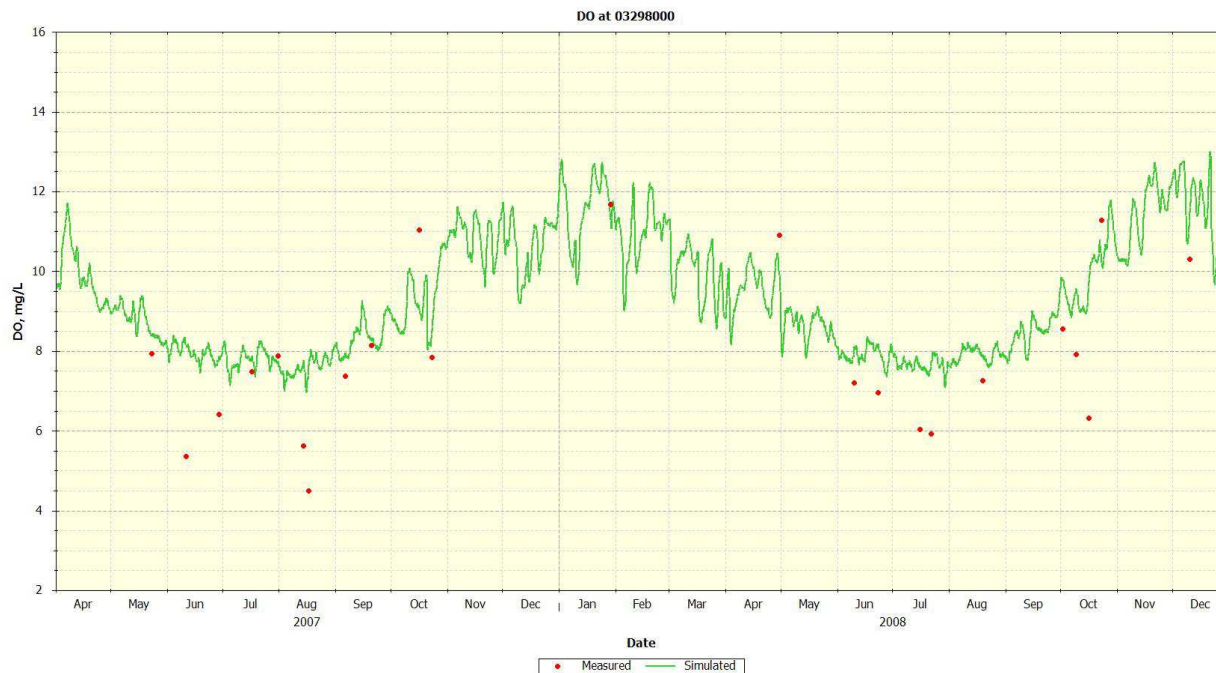


Figure A-40 Modeled vs. Observed DO (mg/L) at 03298000

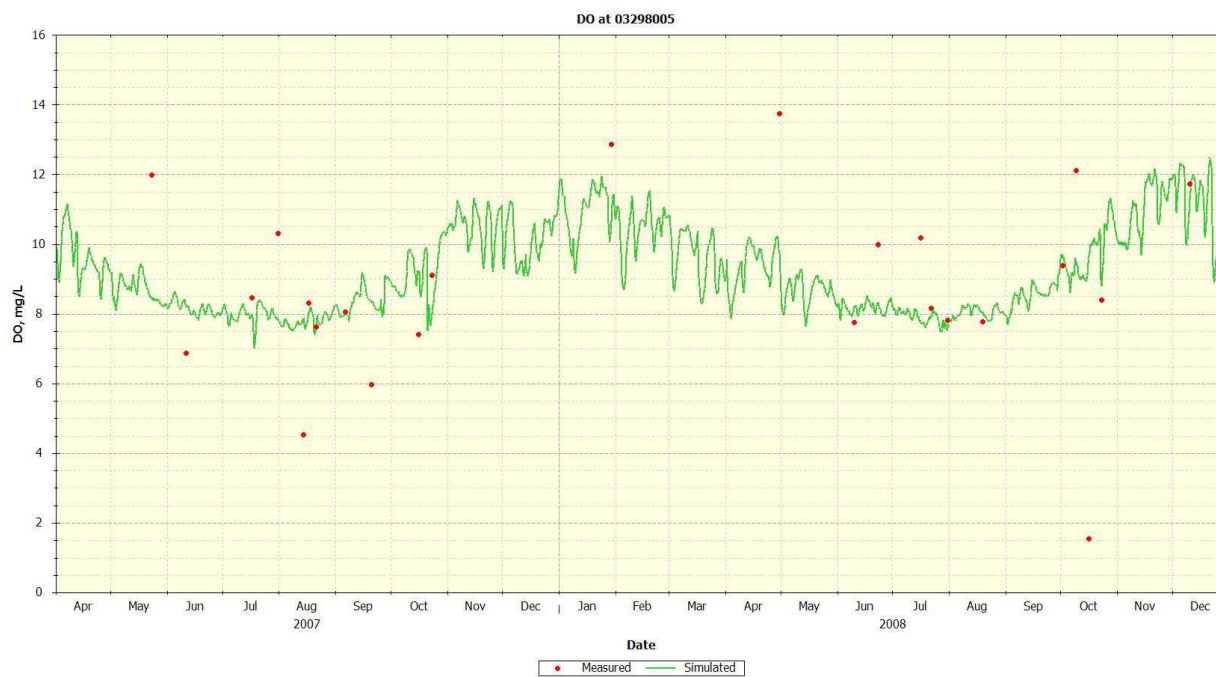


Figure A-41 Modeled vs. Observed DO (mg/L) at 03298005

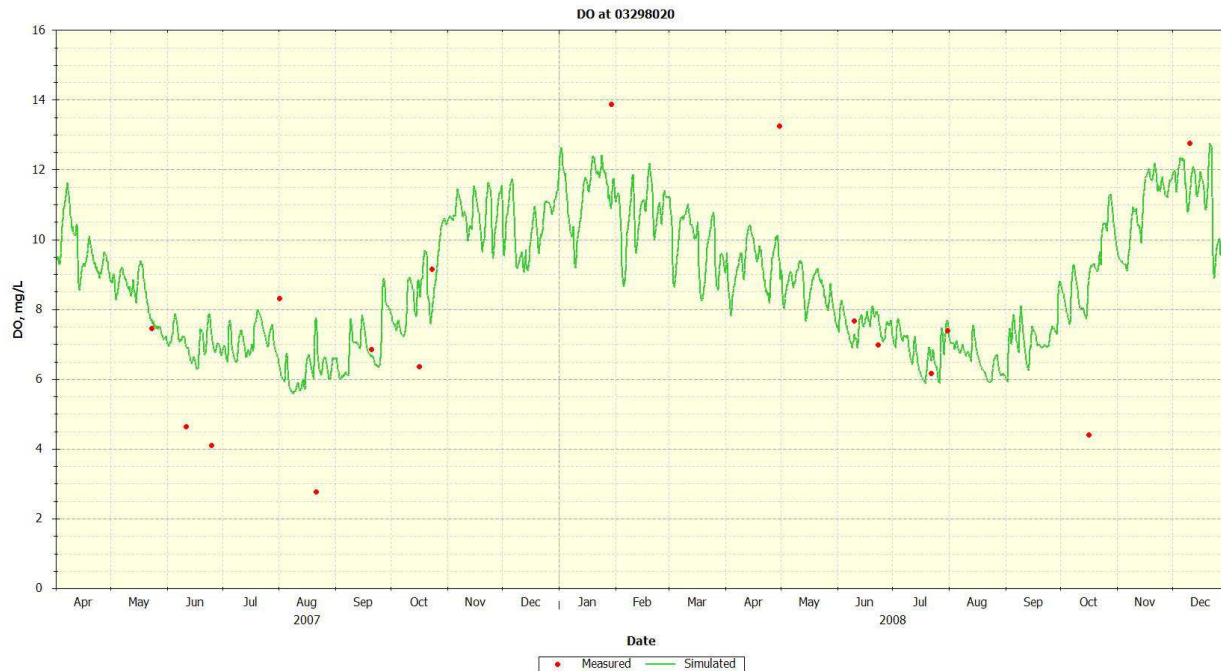


Figure A-42 Modeled vs. Observed DO (mg/L) at 03298020

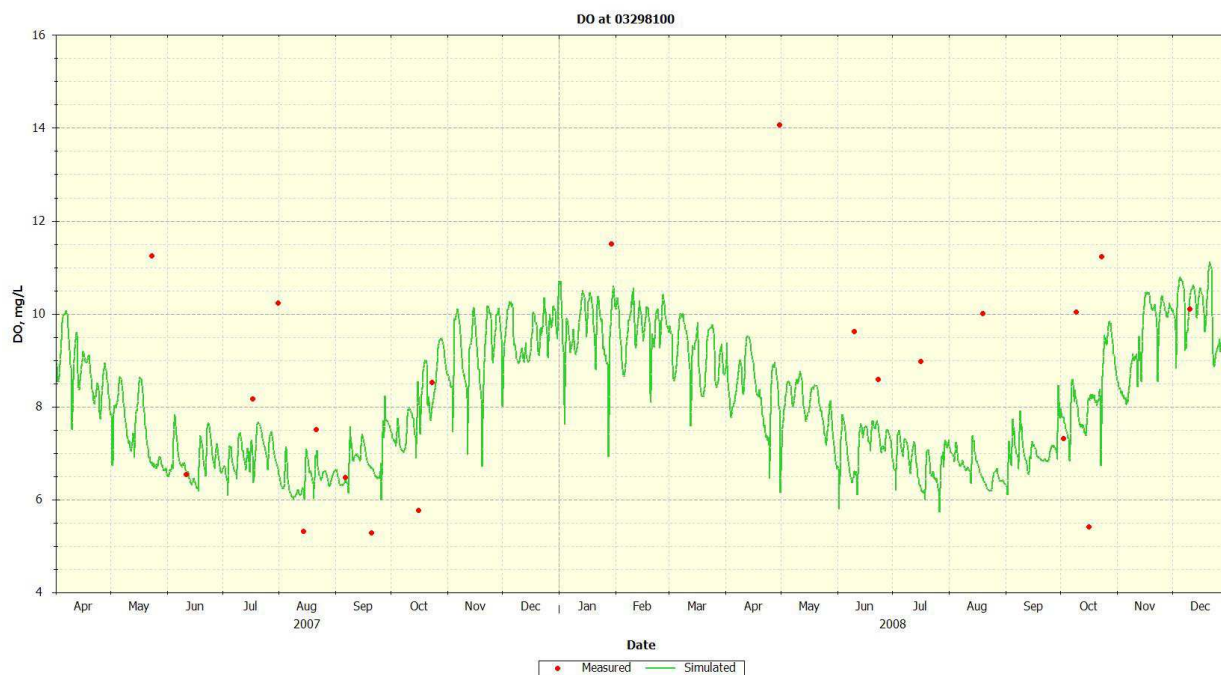


Figure A-43 Modeled vs. Observed DO (mg/L) at 03298100

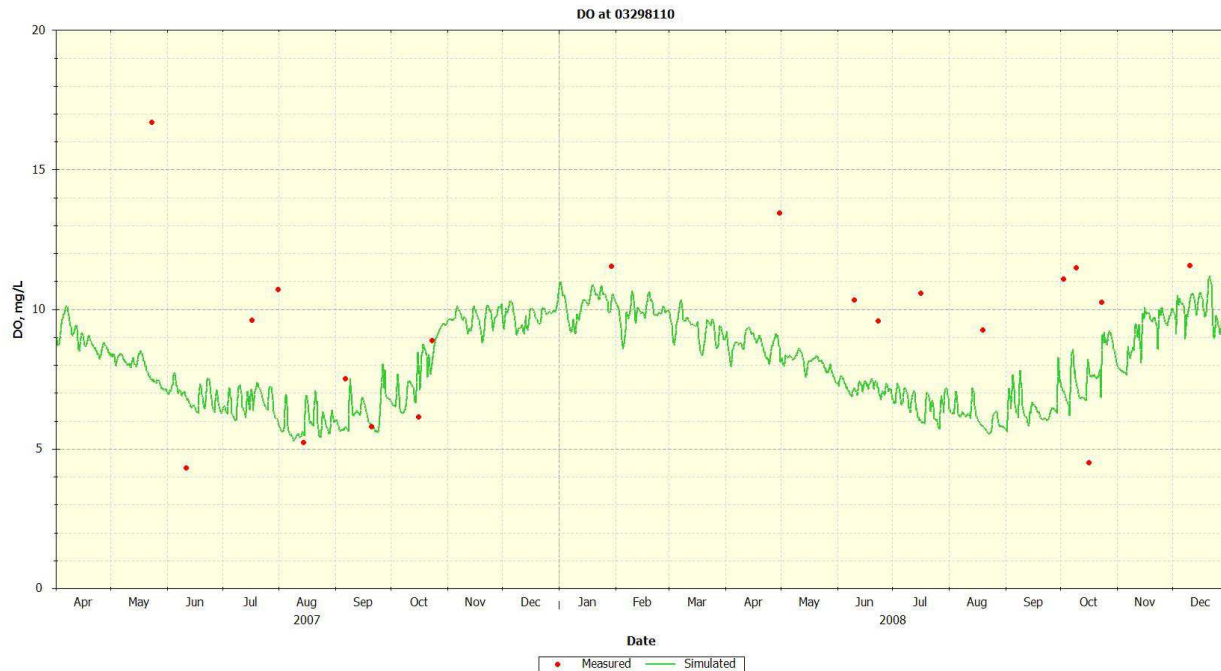


Figure A-44 Modeled vs. Observed DO (mg/L) at 03298110

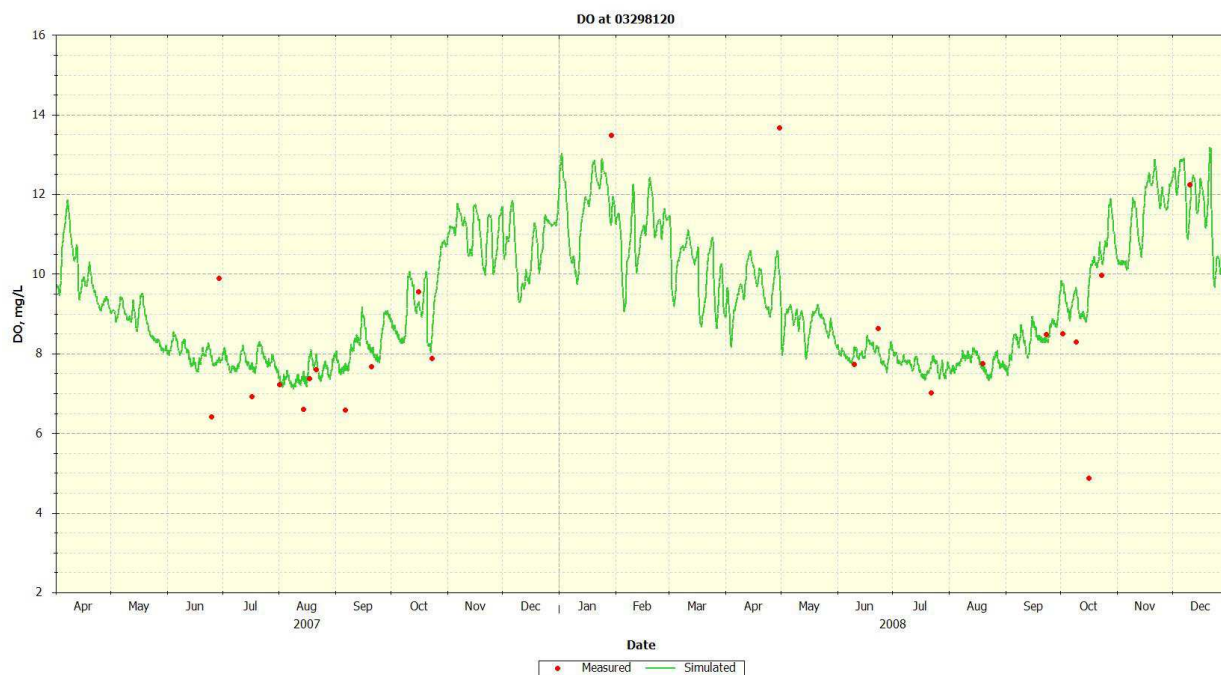


Figure A-45 Modeled vs. Observed DO (mg/L) at 03298120

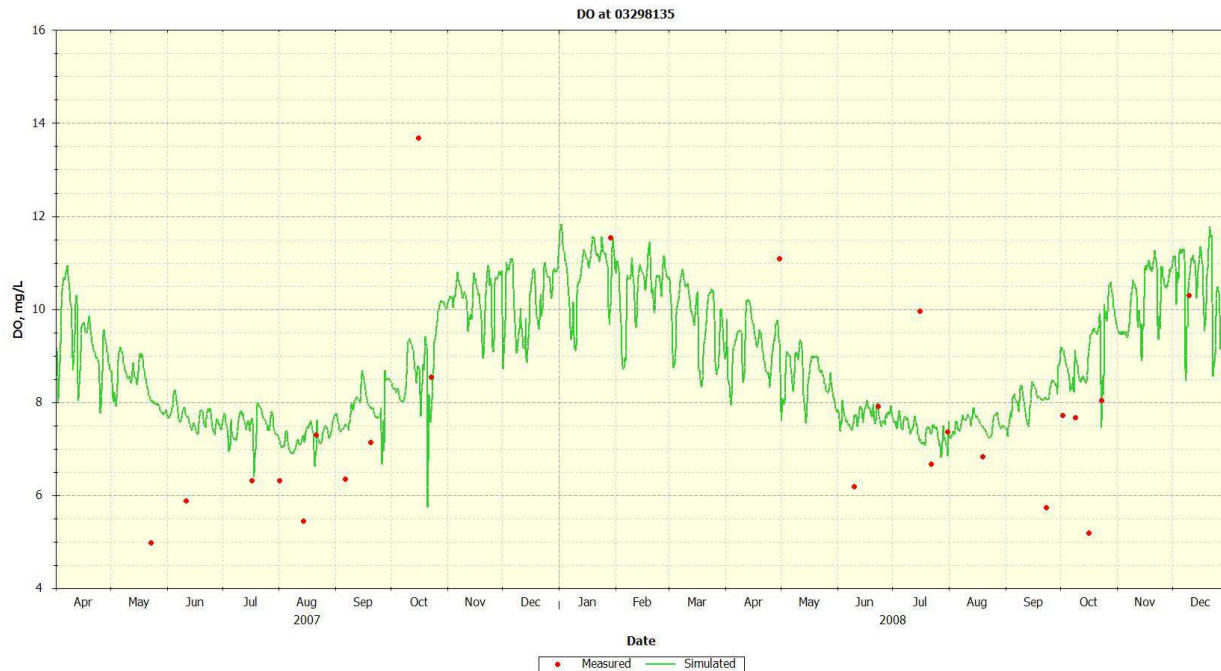


Figure A-46 Modeled vs. Observed DO (mg/L) at 03298135

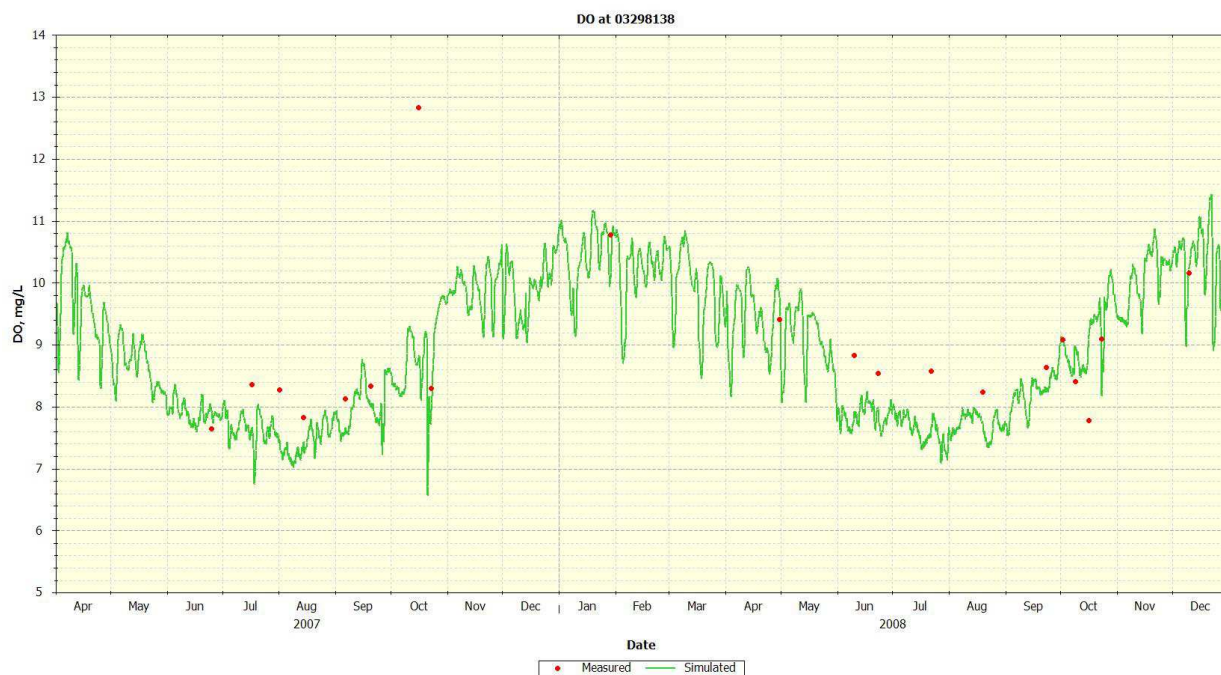


Figure A-47 Modeled vs. Observed DO (mg/L) at 03298138

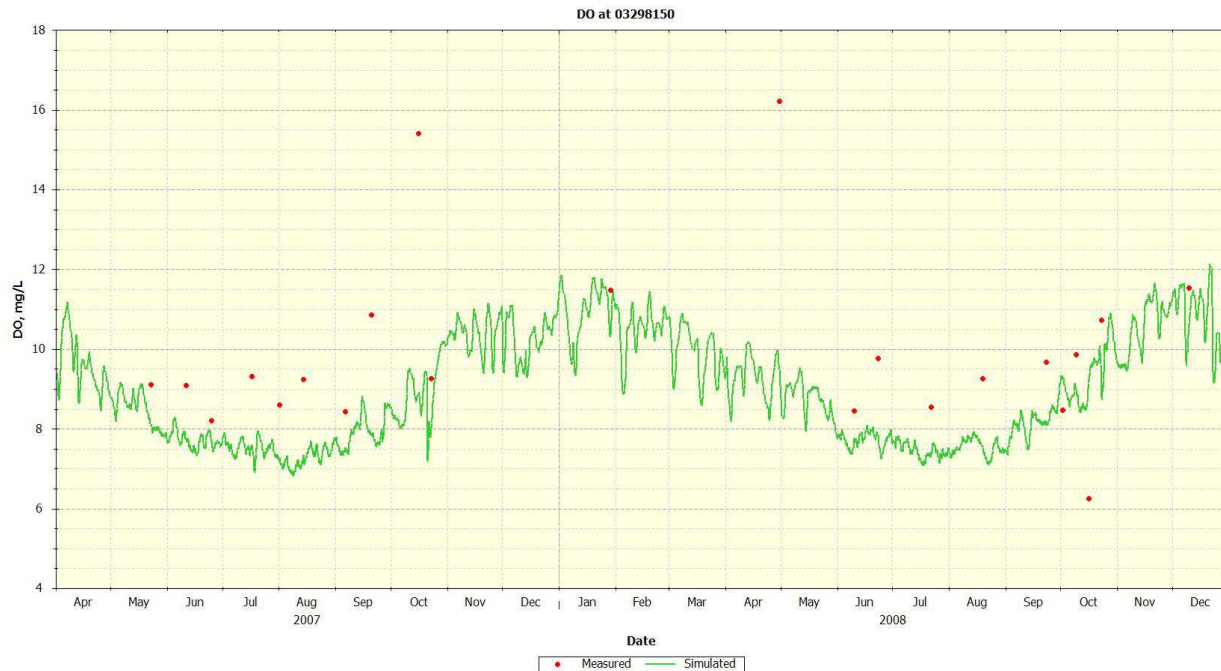


Figure A-48 Modeled vs. Observed DO (mg/L) at 03298150

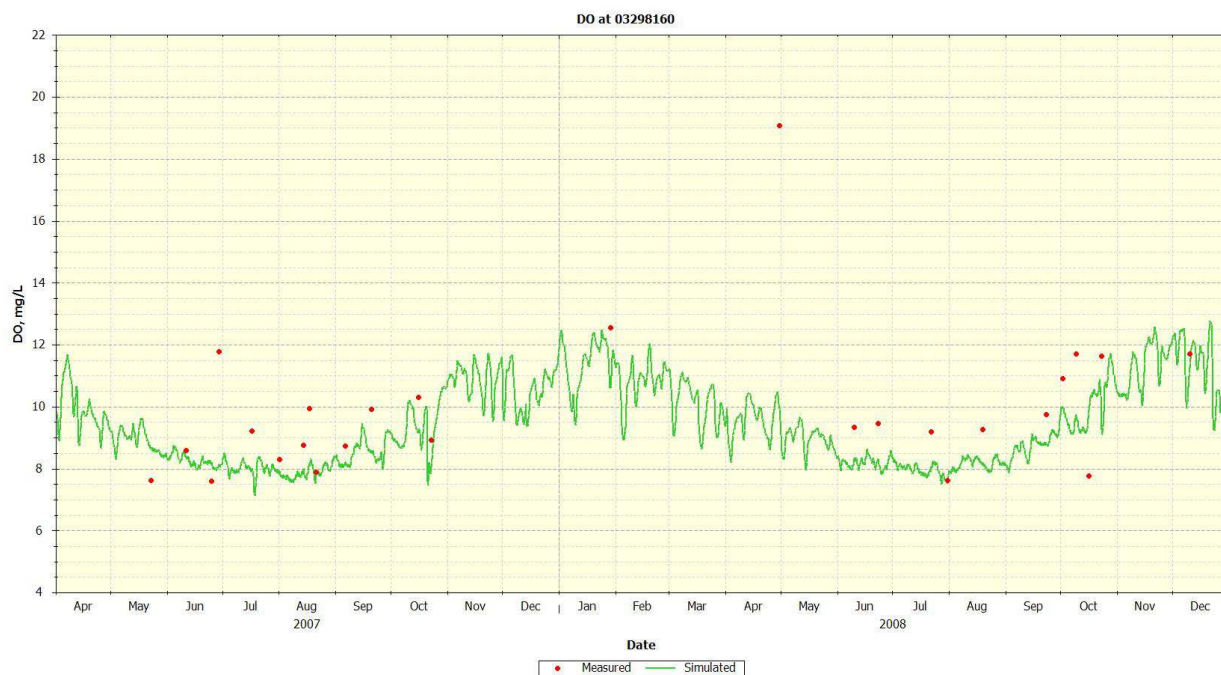


Figure A-49 Modeled vs. Observed DO (mg/L) at 03298160

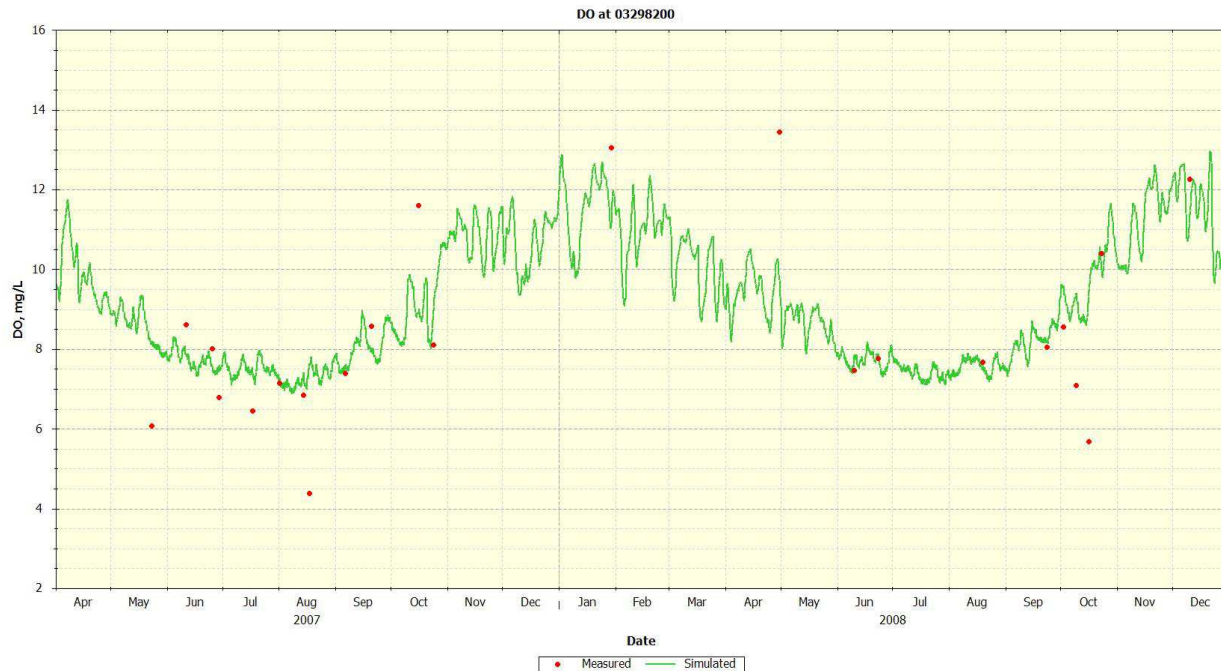


Figure A-50 Modeled vs. Observed DO (mg/L) at 03298200

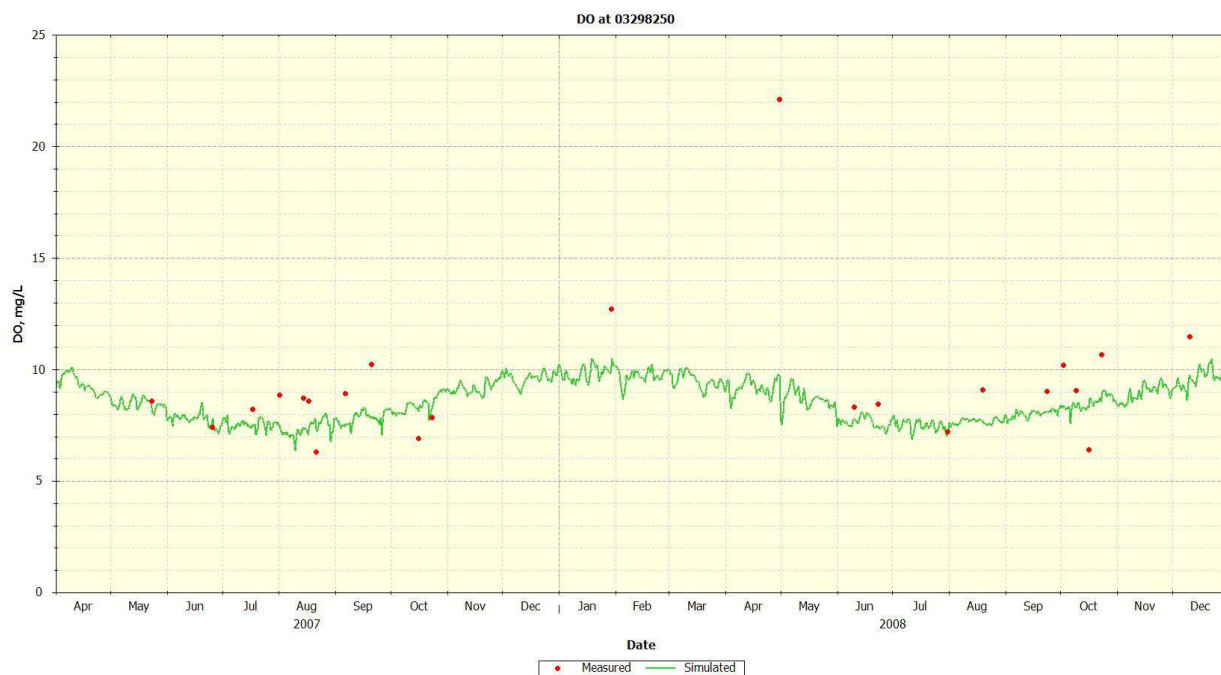


Figure A-51 Modeled vs. Observed DO (mg/L) at 03298250

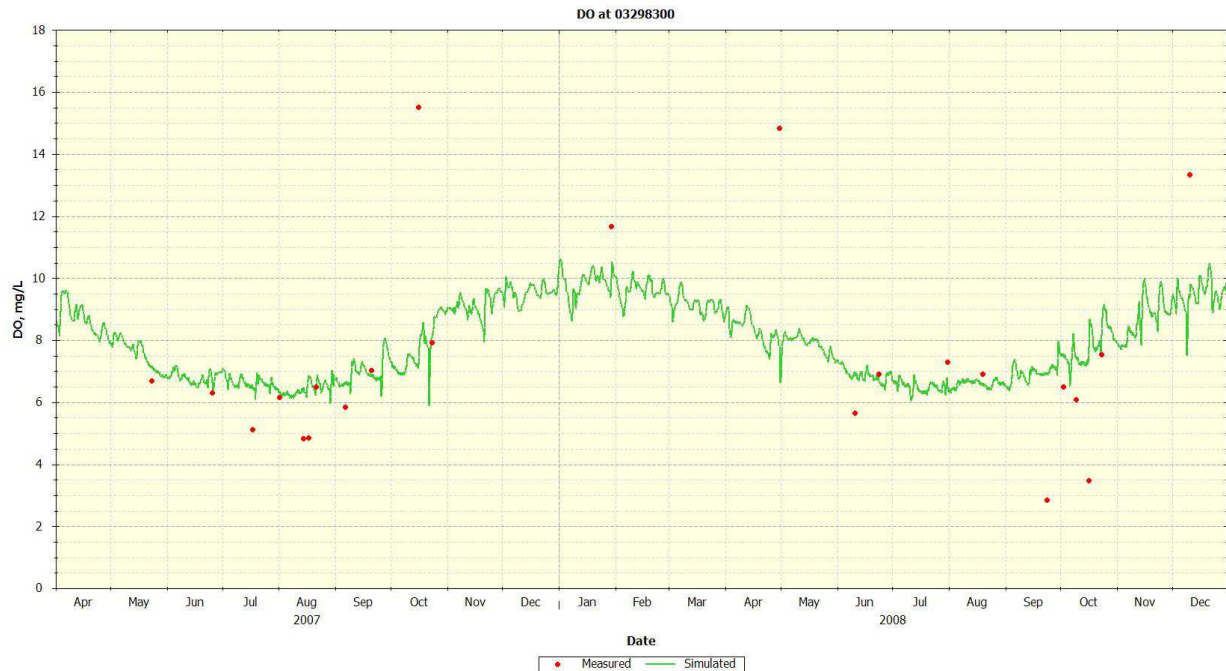


Figure A-52 Modeled vs. Observed DO (mg/L) at 03298300

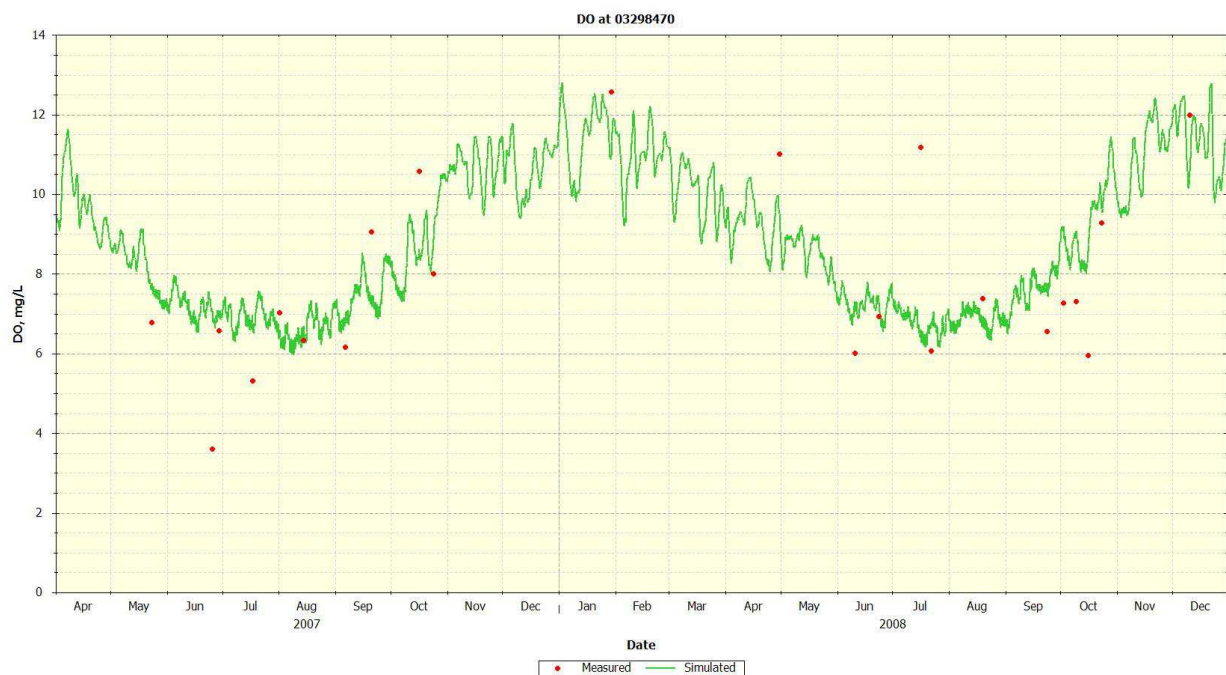


Figure A-53 Modeled vs. Observed DO (mg/L) at 03298470

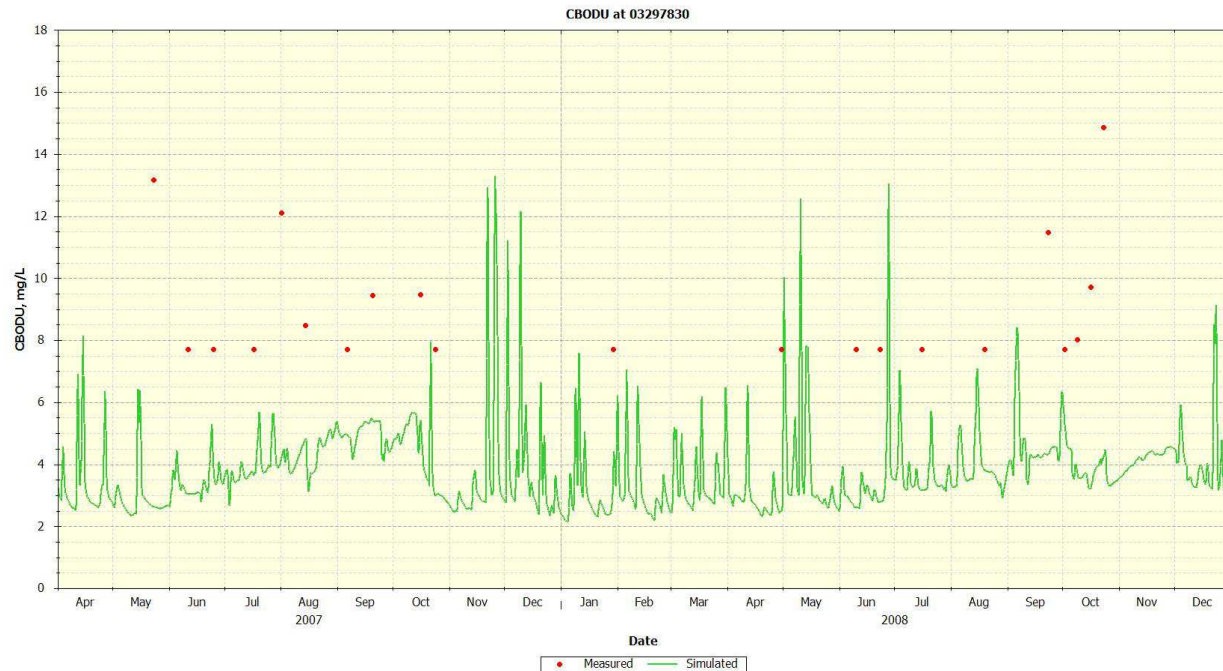


Figure A-54 Modeled vs. Observed CBOD (mg/L) at 03297830

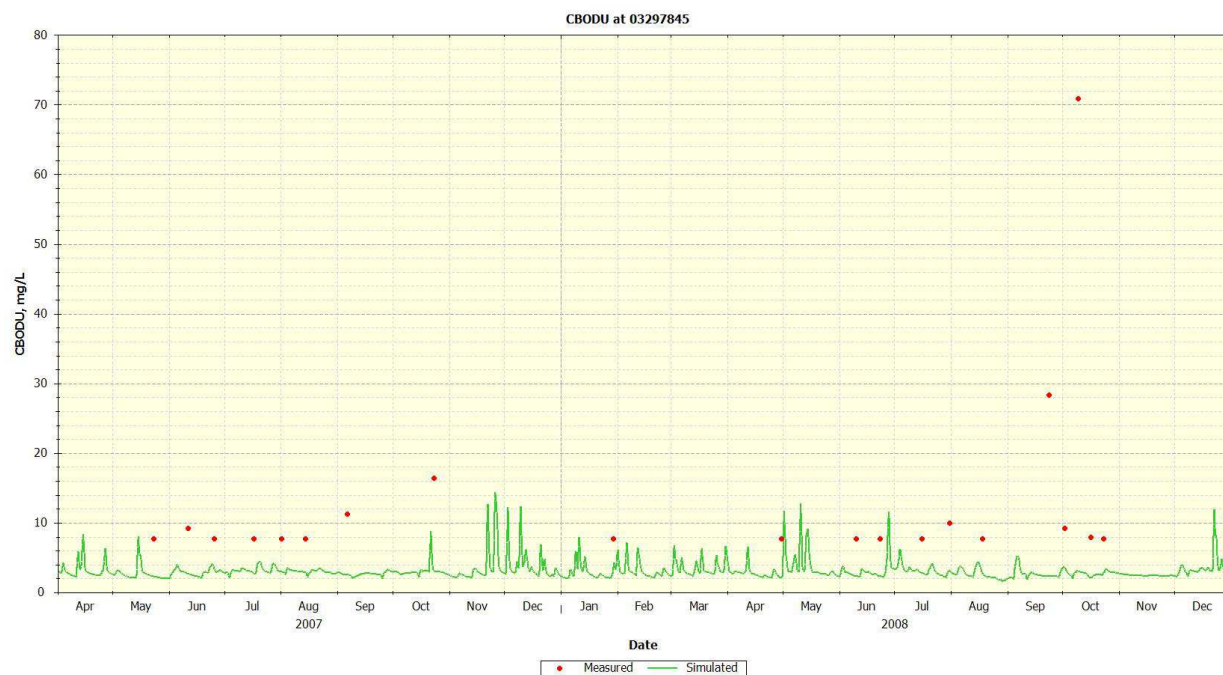


Figure A-55 Modeled vs. Observed CBOD (mg/L) at 03297845

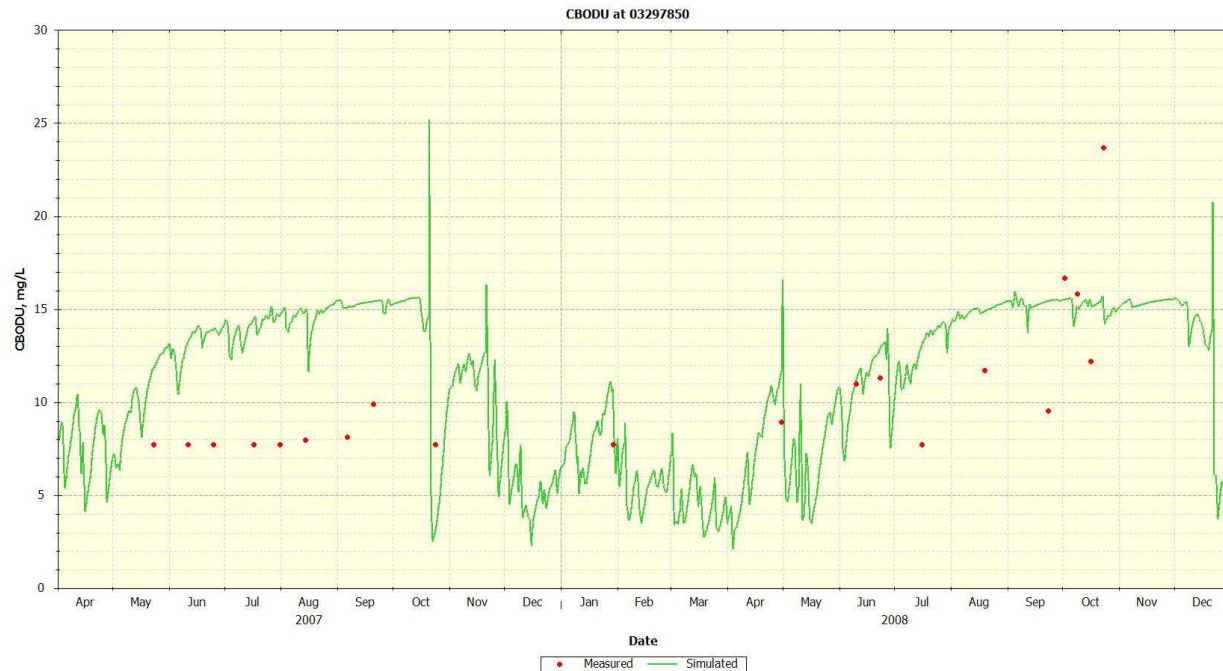


Figure A-56 Modeled vs. Observed CBOD (mg/L) at 03297850

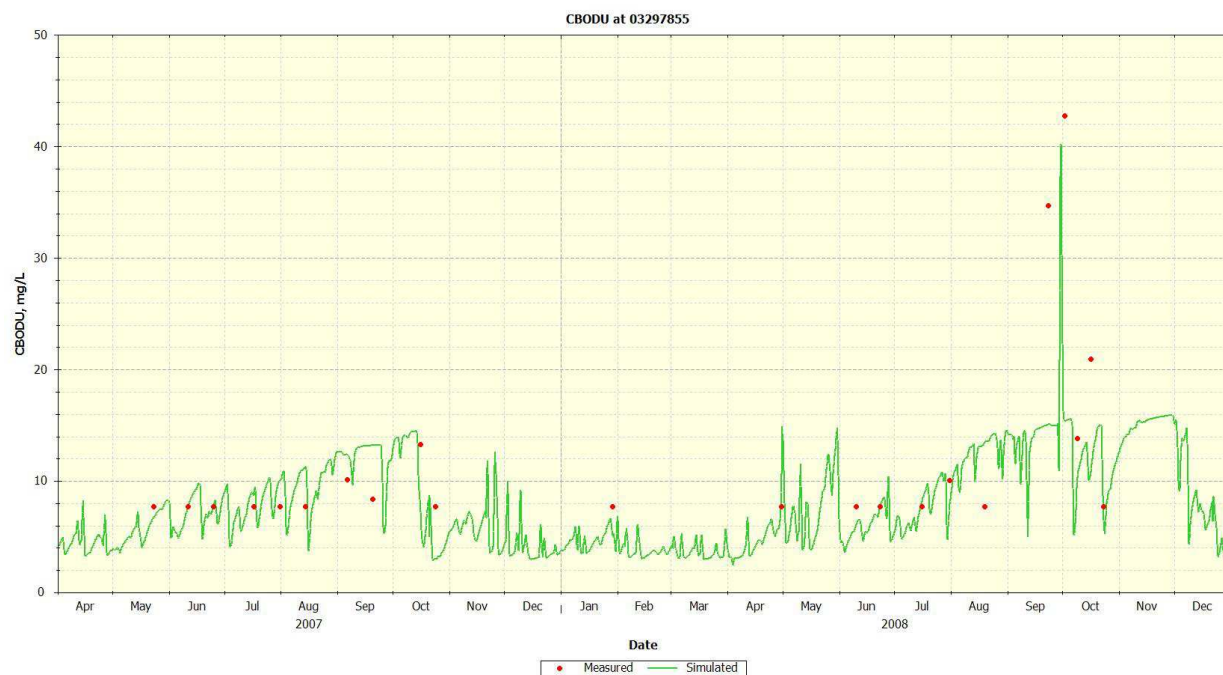


Figure A-57 Modeled vs. Observed CBOD (mg/L) at 03297855

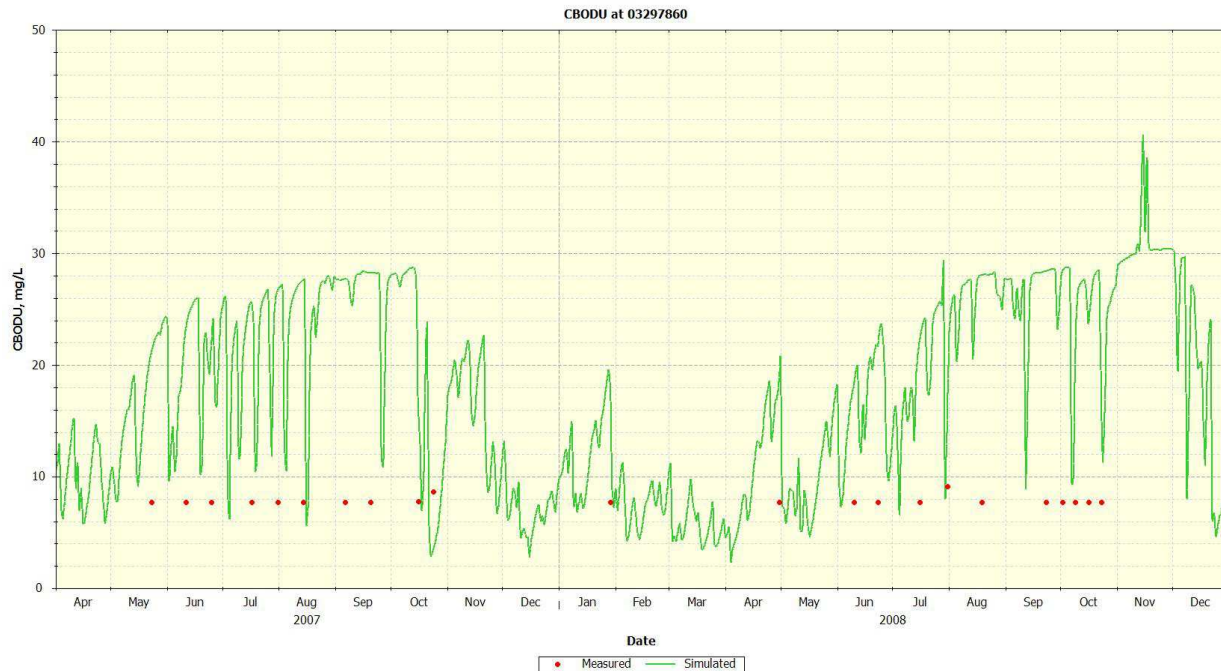


Figure A-58 Modeled vs. Observed CBOD (mg/L) at 03297860

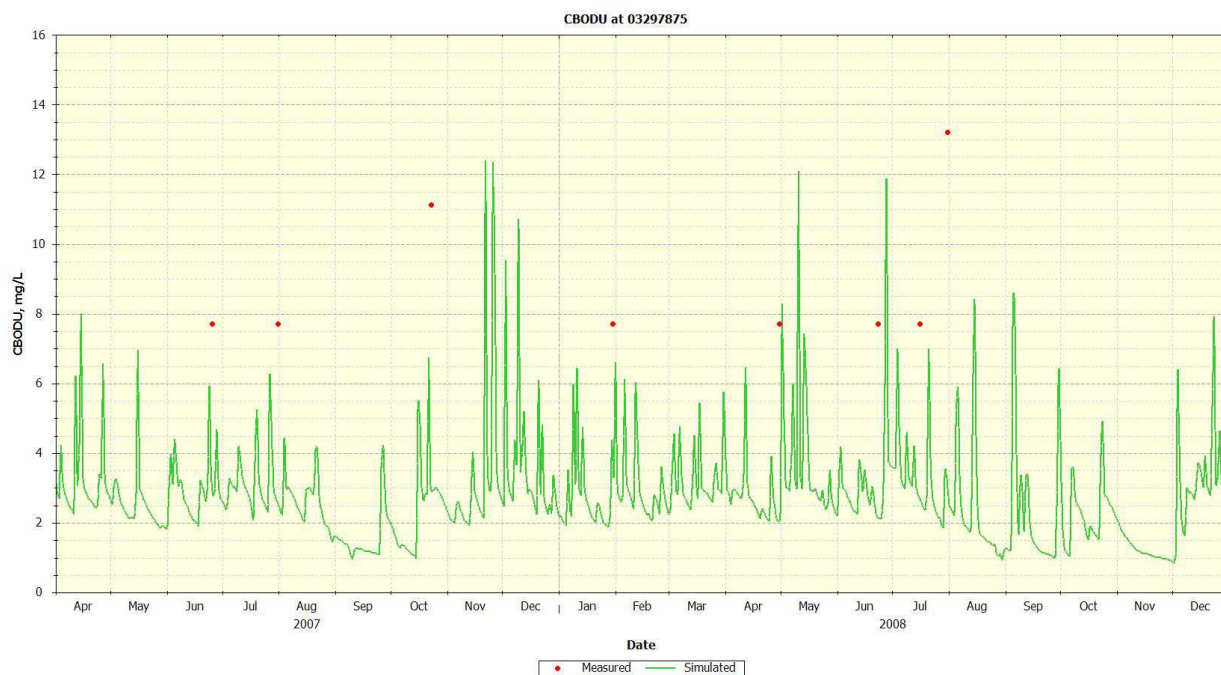


Figure A-59 Modeled vs. Observed CBOD (mg/L) at 03297875

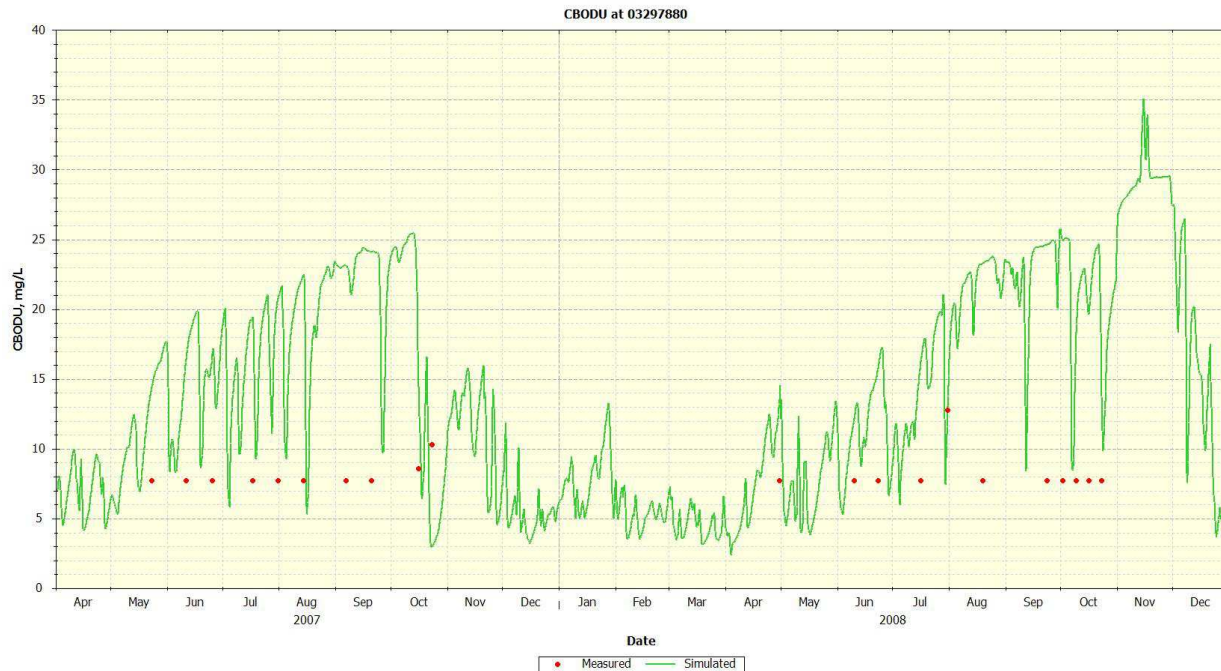


Figure A-60 Modeled vs. Observed CBOD (mg/L) at 03297880

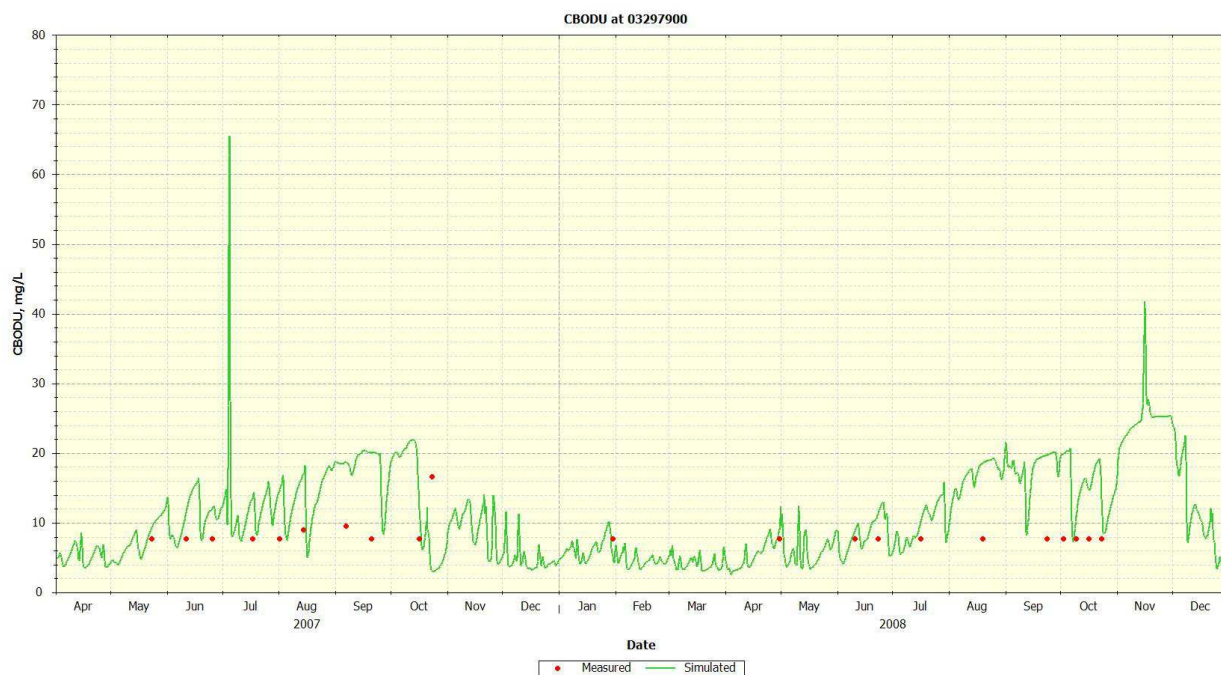


Figure A-61 Modeled vs. Observed CBOD (mg/L) at 03297900

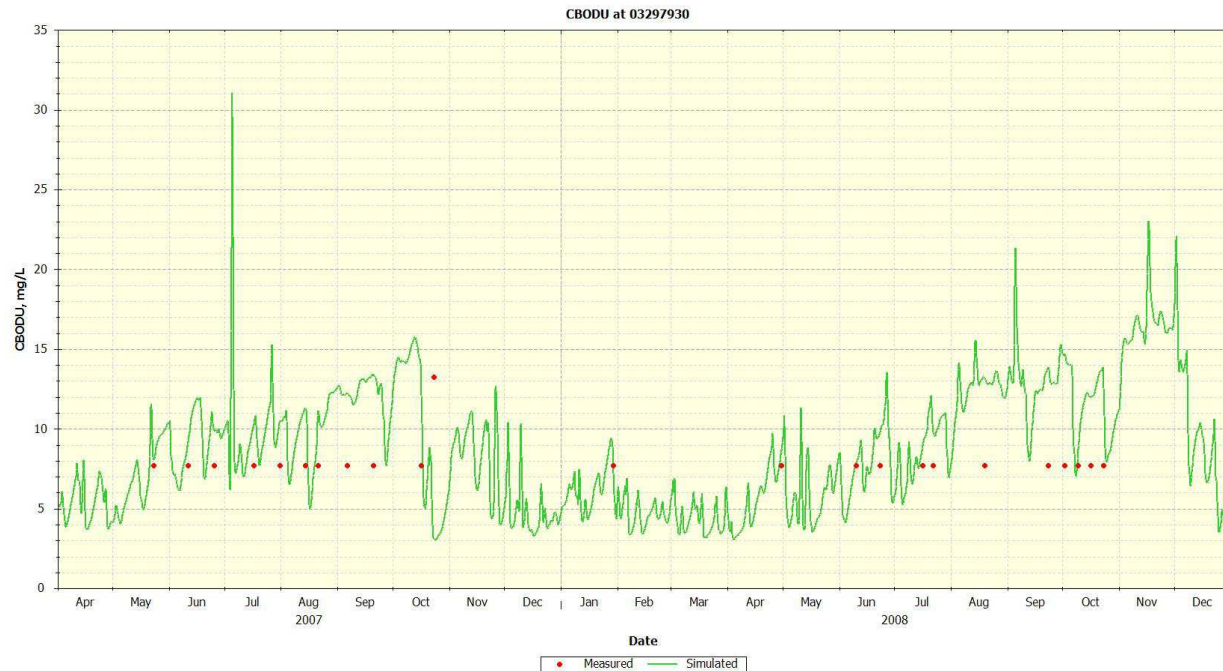


Figure A-62 Modeled vs. Observed CBOD (mg/L) at 03297930

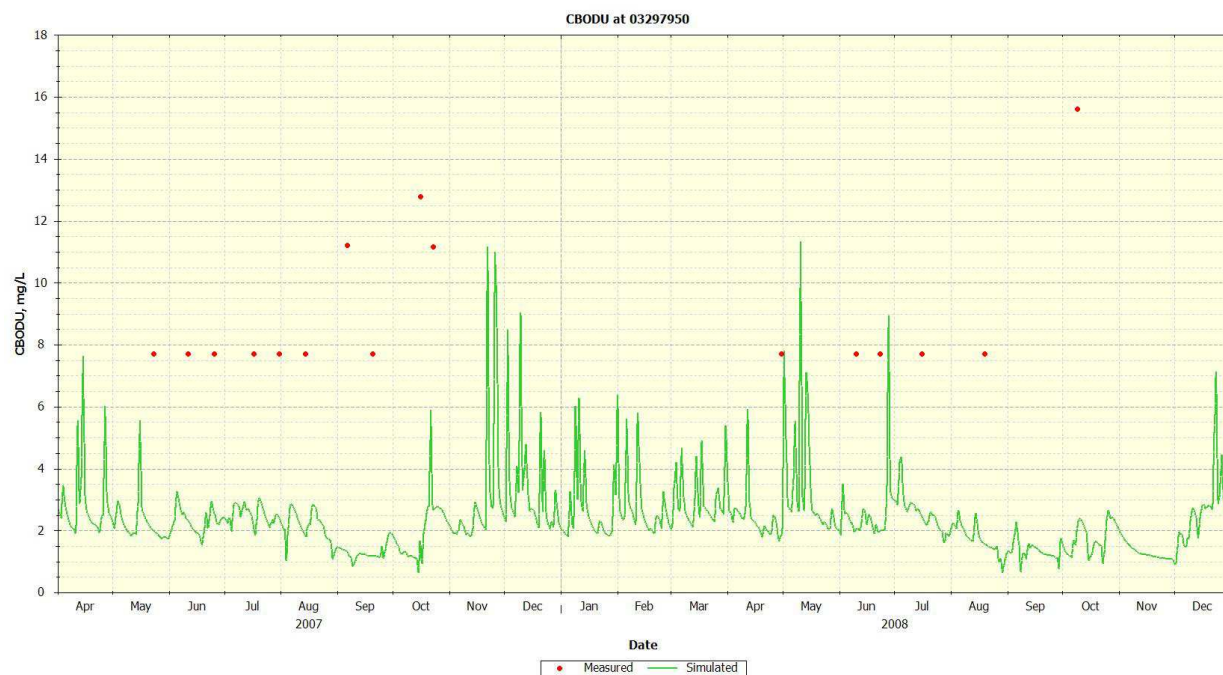


Figure A-63 Modeled vs. Observed CBOD (mg/L) at 03297950

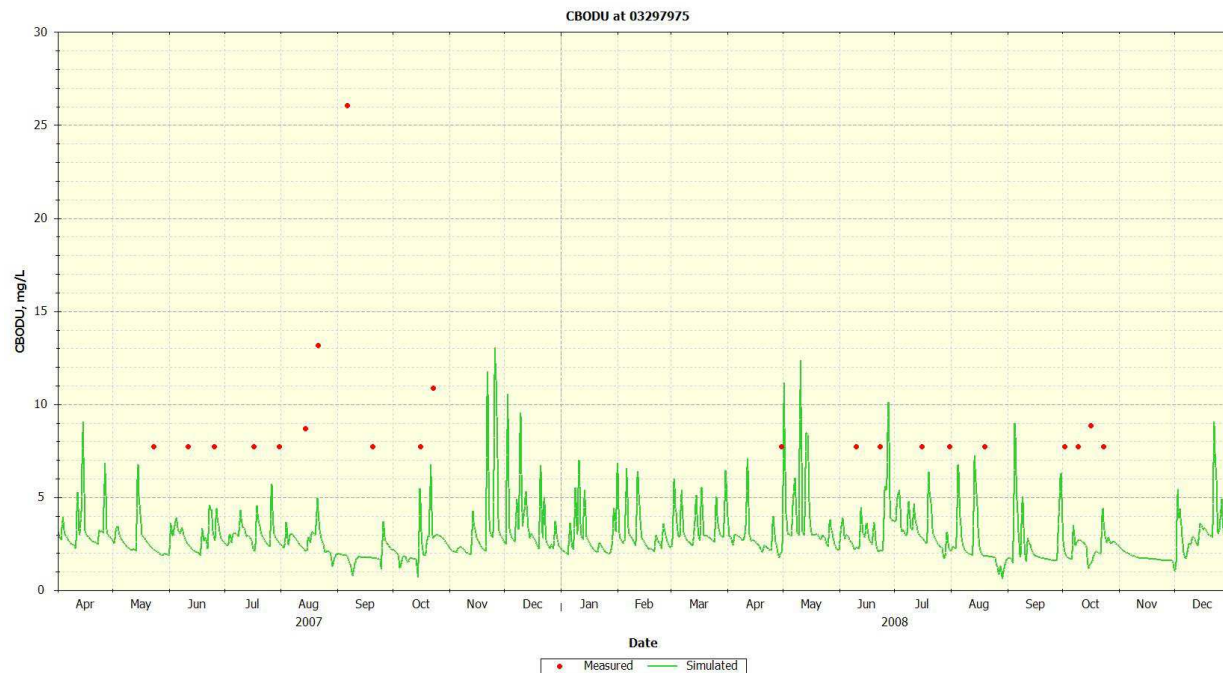


Figure A-64 Modeled vs. Observed CBOD (mg/L) at 03297975

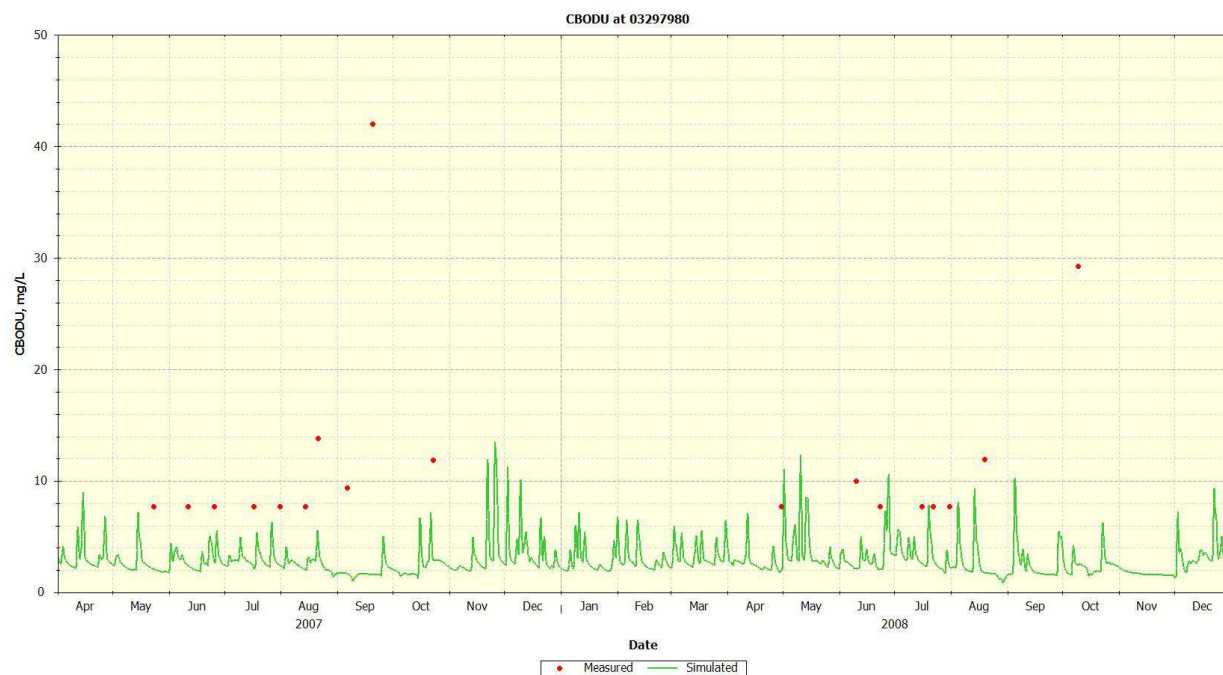


Figure A-65 Modeled vs. Observed CBOD (mg/L) at 03297980

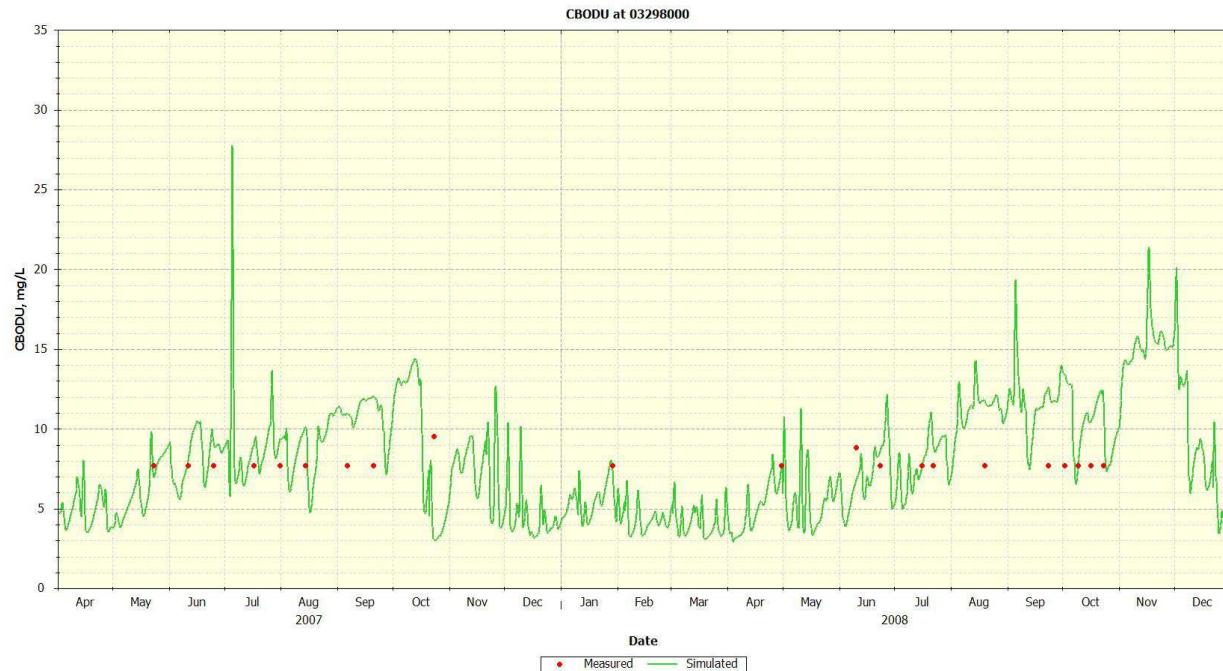


Figure A-66 Modeled vs. Observed CBOD (mg/L) at 03298000

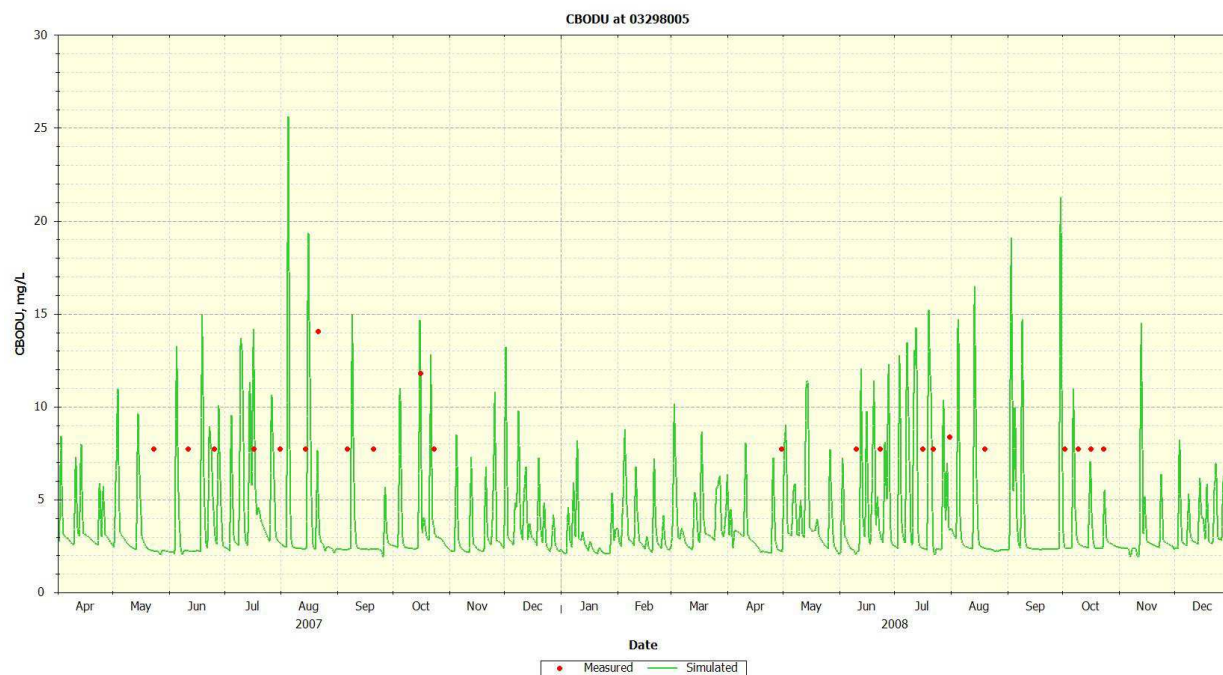


Figure A-67 Modeled vs. Observed CBOD (mg/L) at 03298005

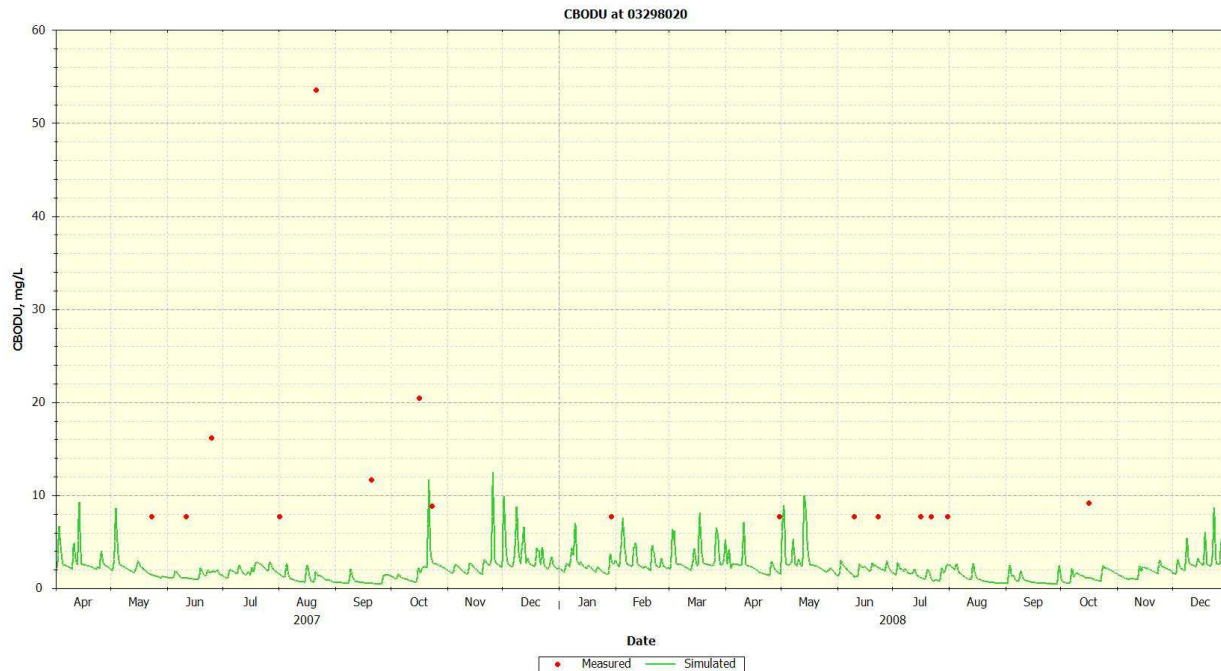


Figure A-68 Modeled vs. Observed CBOD (mg/L) at 03298020

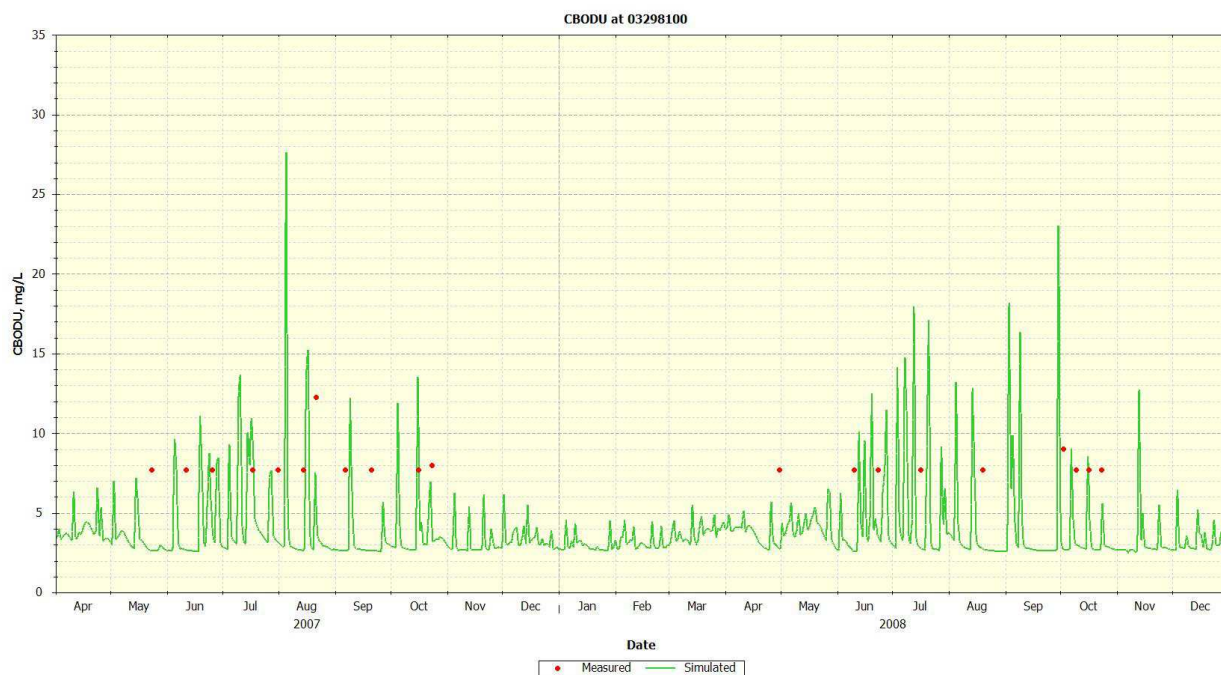


Figure A-69 Modeled vs. Observed CBOD (mg/L) at 03298100

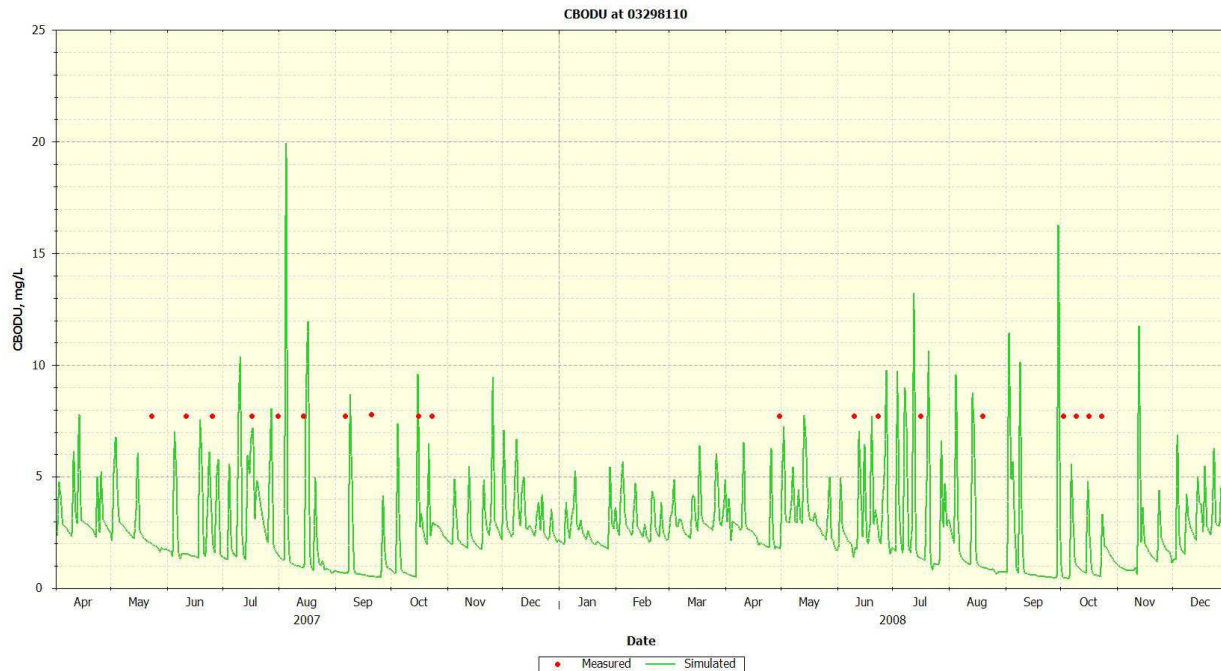


Figure A-70 Modeled vs. Observed CBOD (mg/L) at 03298110

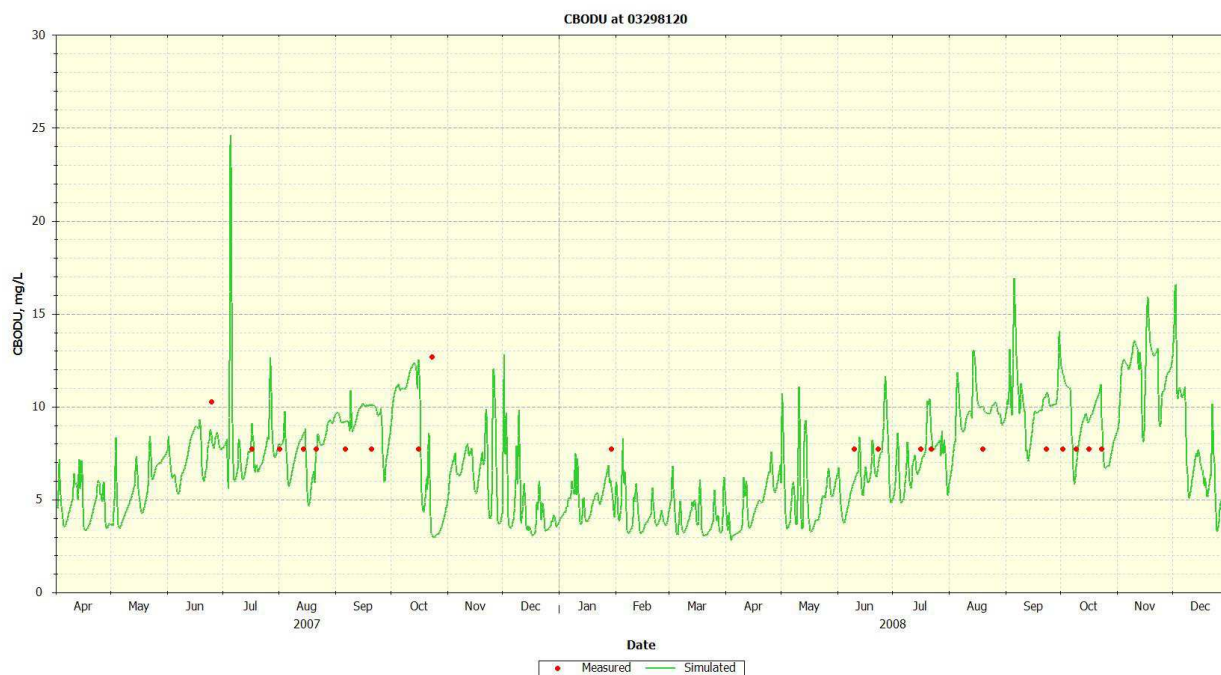


Figure A-71 Modeled vs. Observed CBOD (mg/L) at 03298120

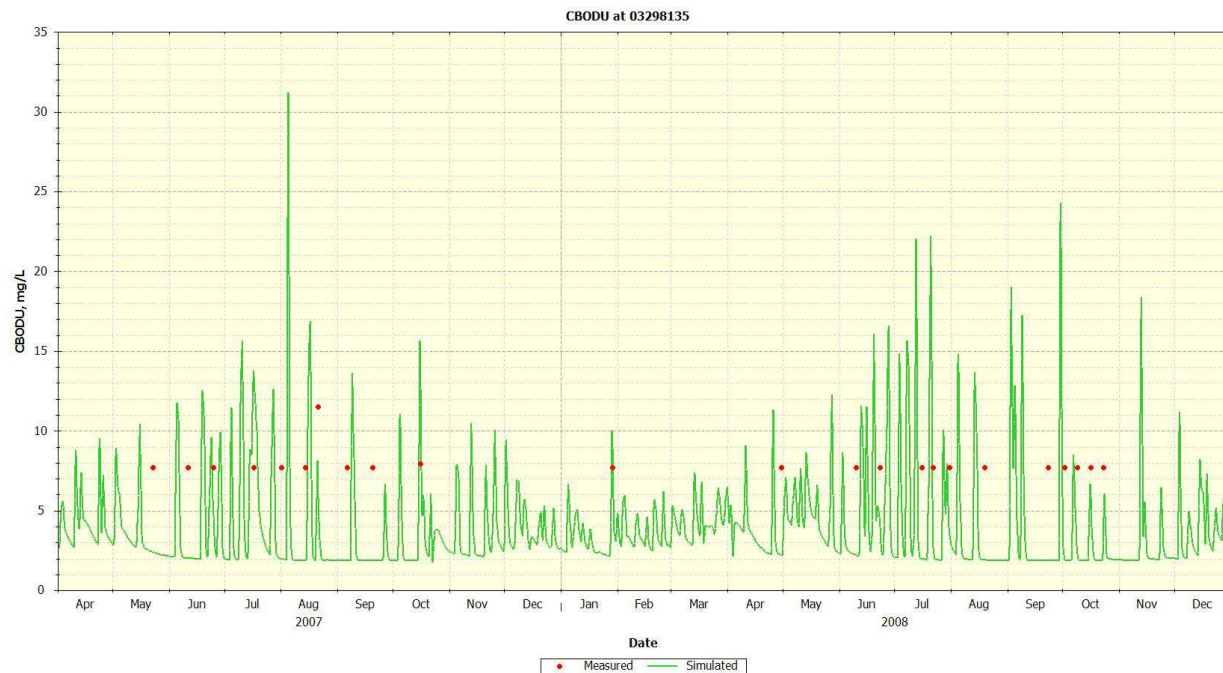


Figure A-72 Modeled vs. Observed CBOD (mg/L) at 03298135

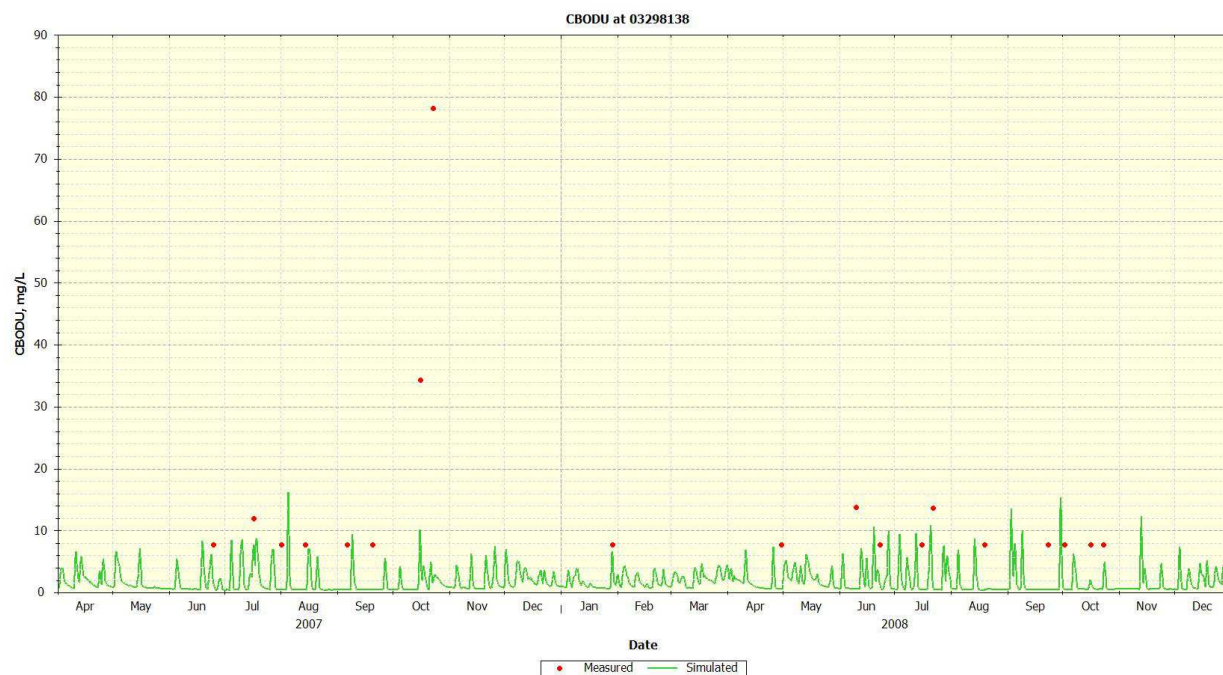


Figure A-73 Modeled vs. Observed CBOD (mg/L) at 03298138

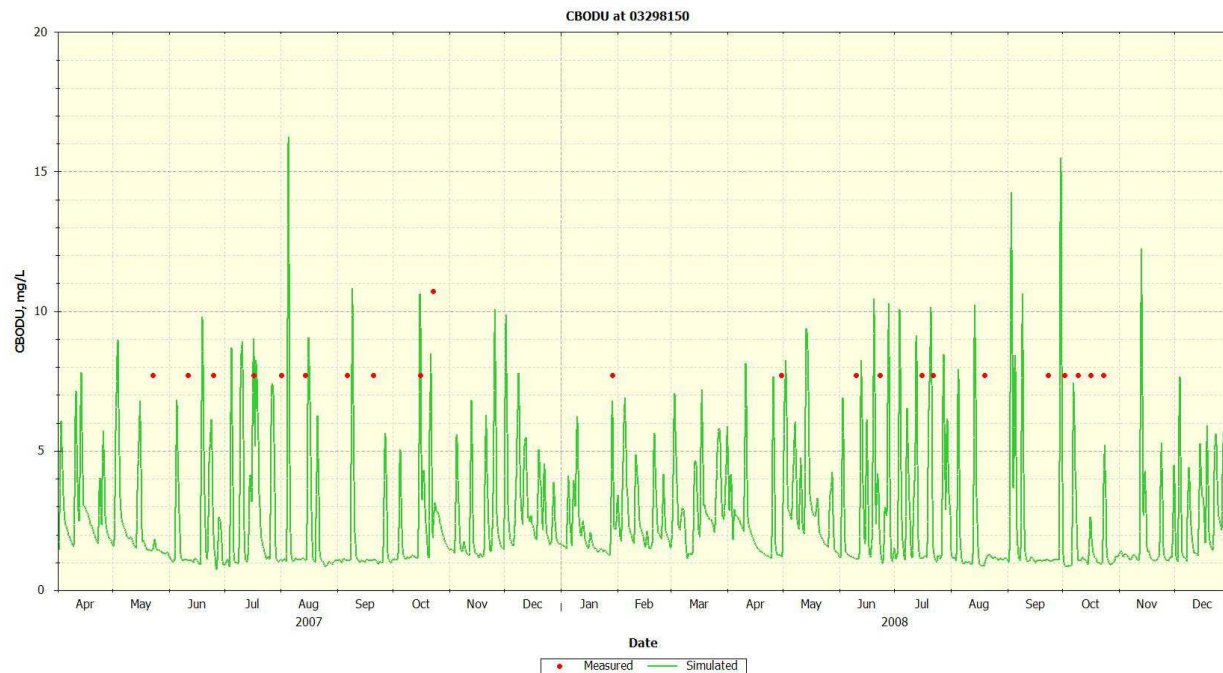


Figure A-74 Modeled vs. Observed CBOD (mg/L) at 03298150

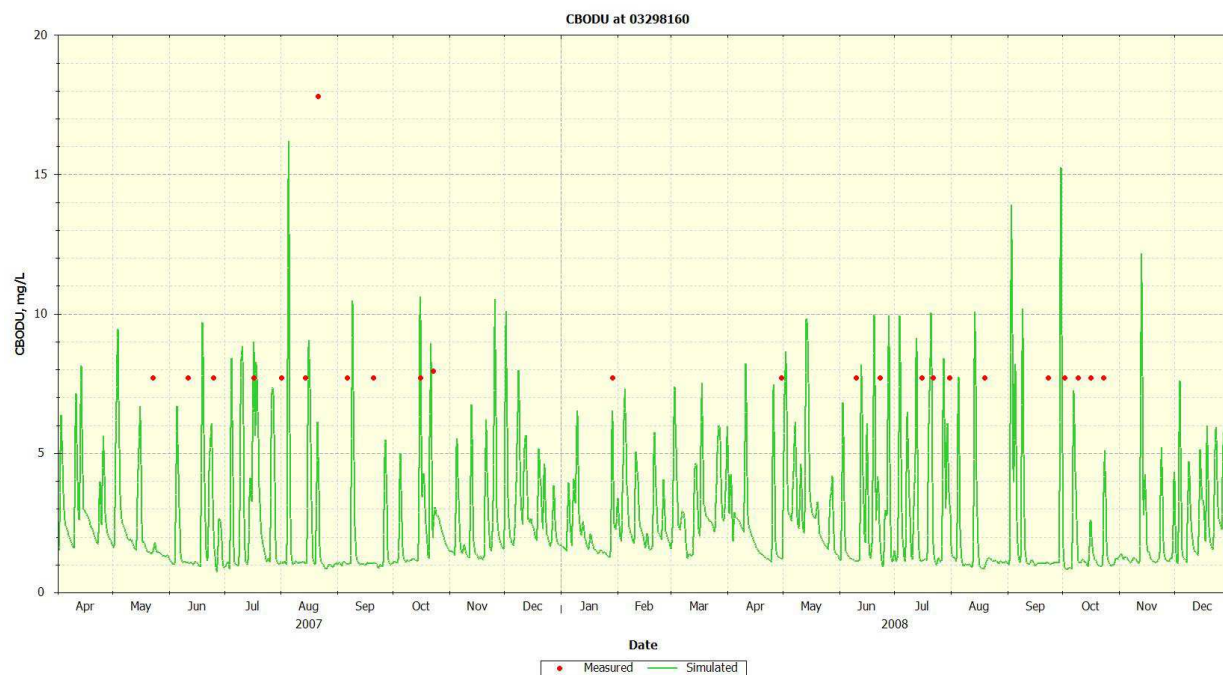


Figure A-75 Modeled vs. Observed CBOD (mg/L) at 03298160

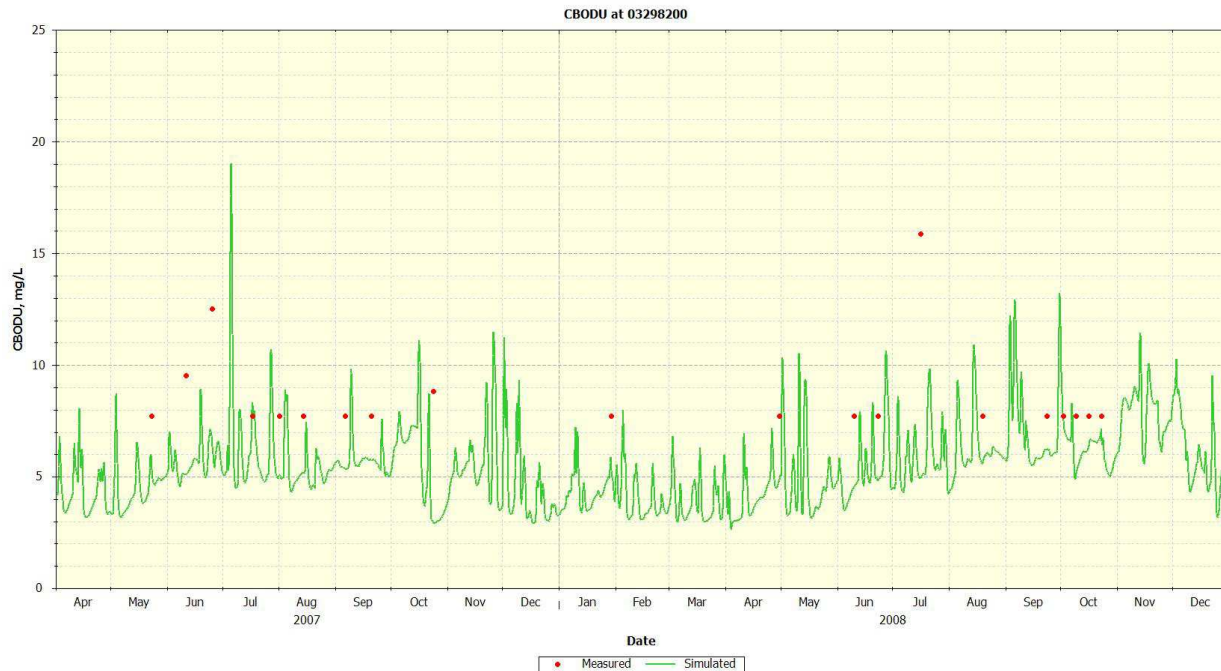


Figure A-76 Modeled vs. Observed CBOD (mg/L) at 03298200

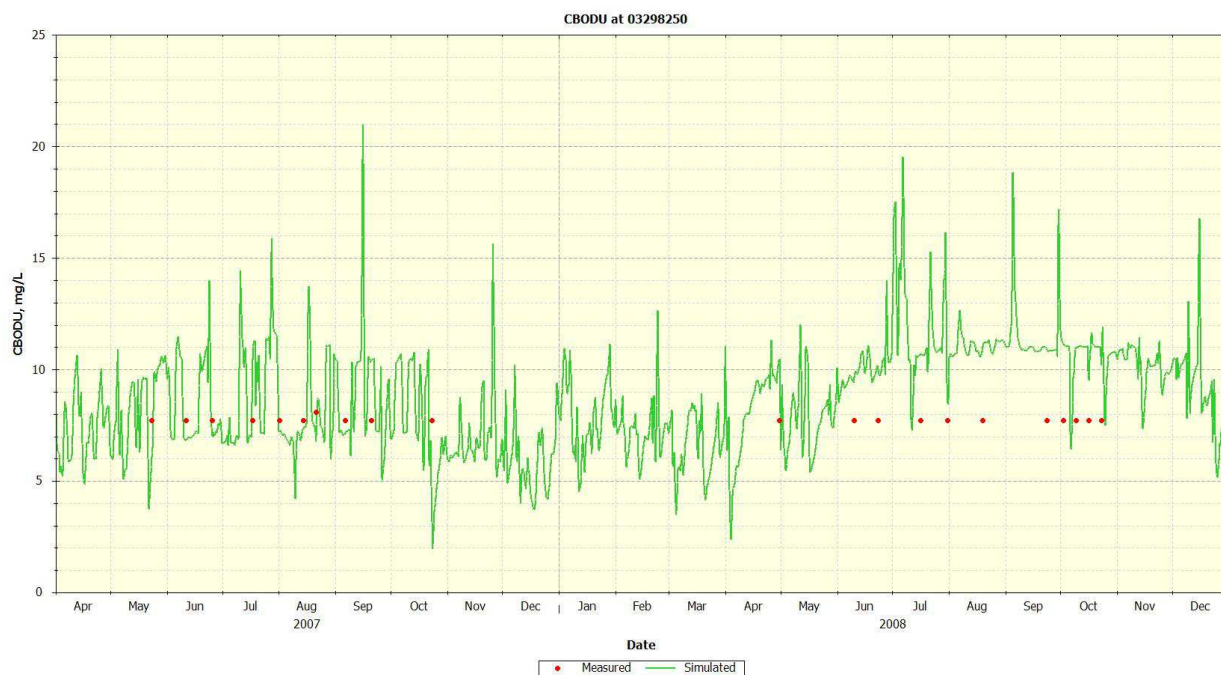


Figure A-77 Modeled vs. Observed CBOD (mg/L) at 03298250

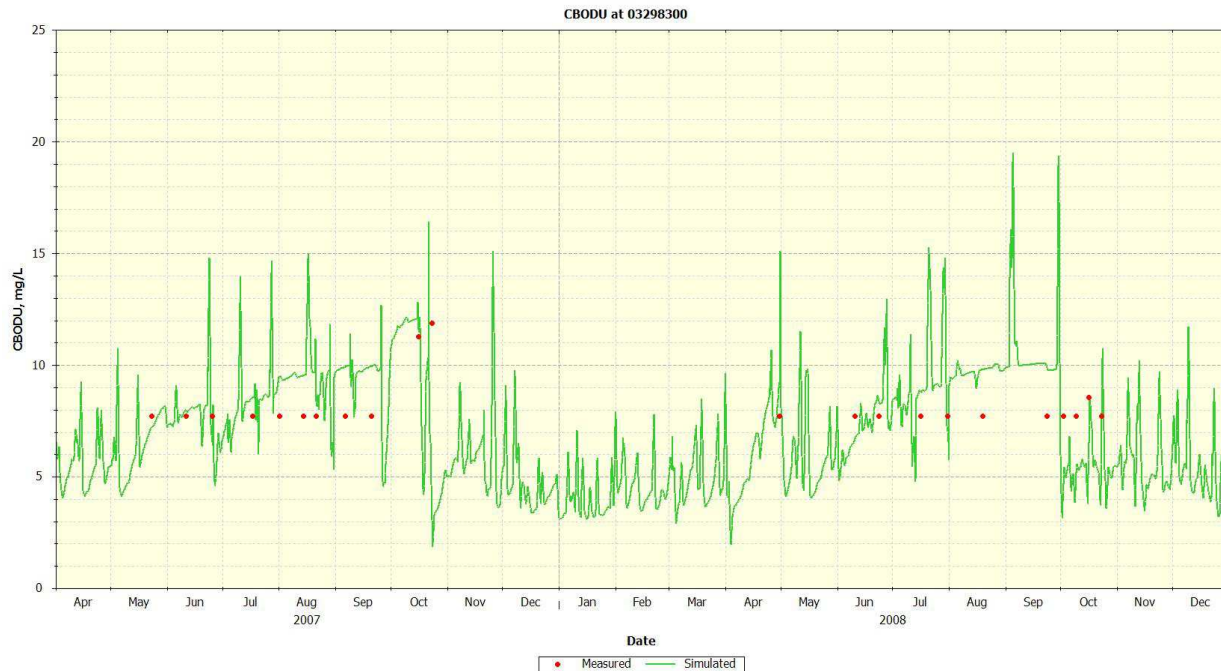


Figure A-78 Modeled vs. Observed CBOD (mg/L) at 03298300

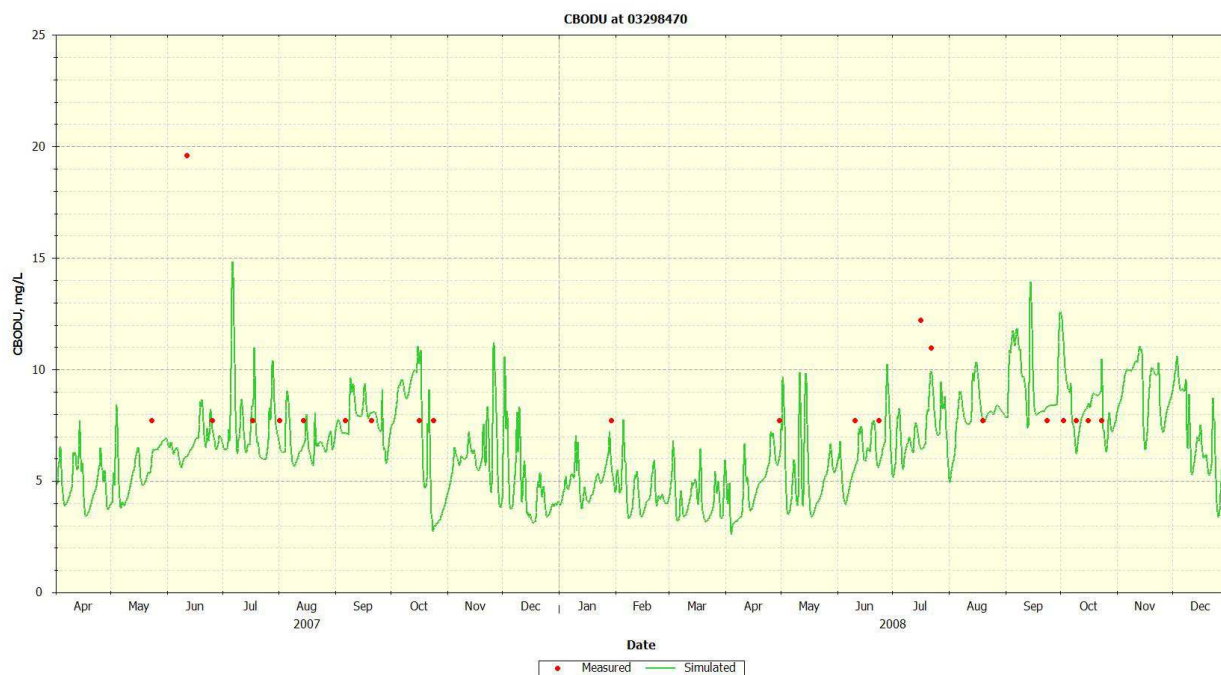


Figure A-79 Modeled vs. Observed CBOD (mg/L) at 03298470

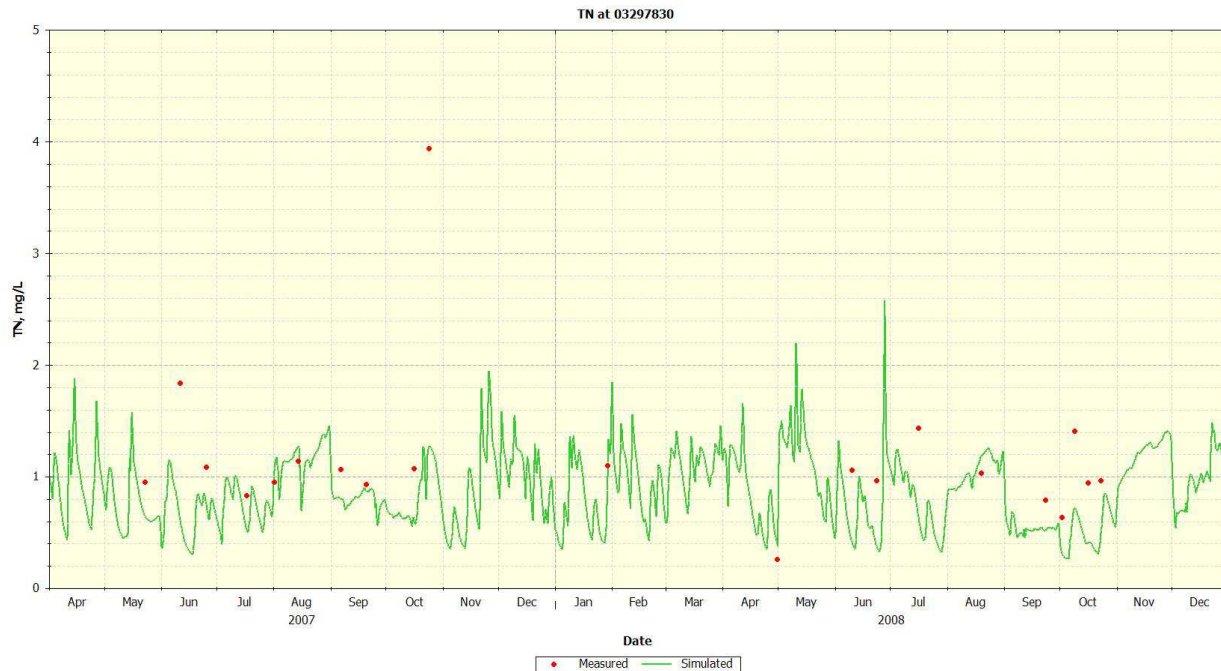


Figure A-80 Modeled vs. Observed TN (mg/L) at 03297830

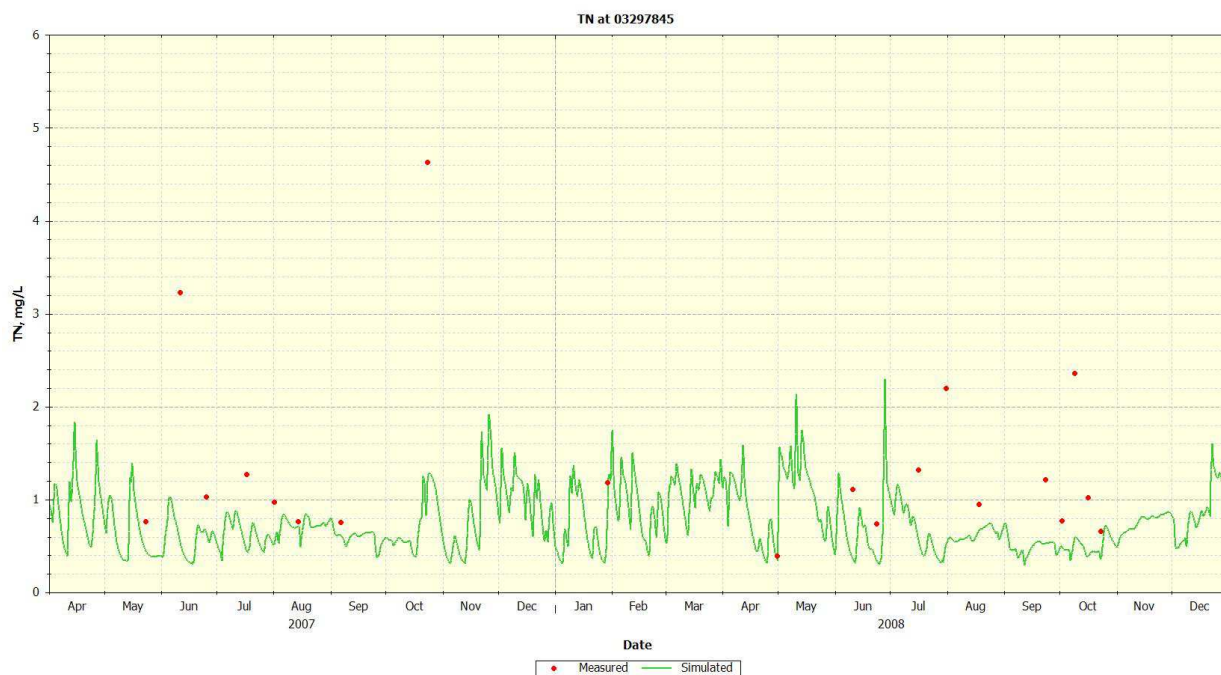


Figure A-81 Modeled vs. Observed TN (mg/L) at 03297845

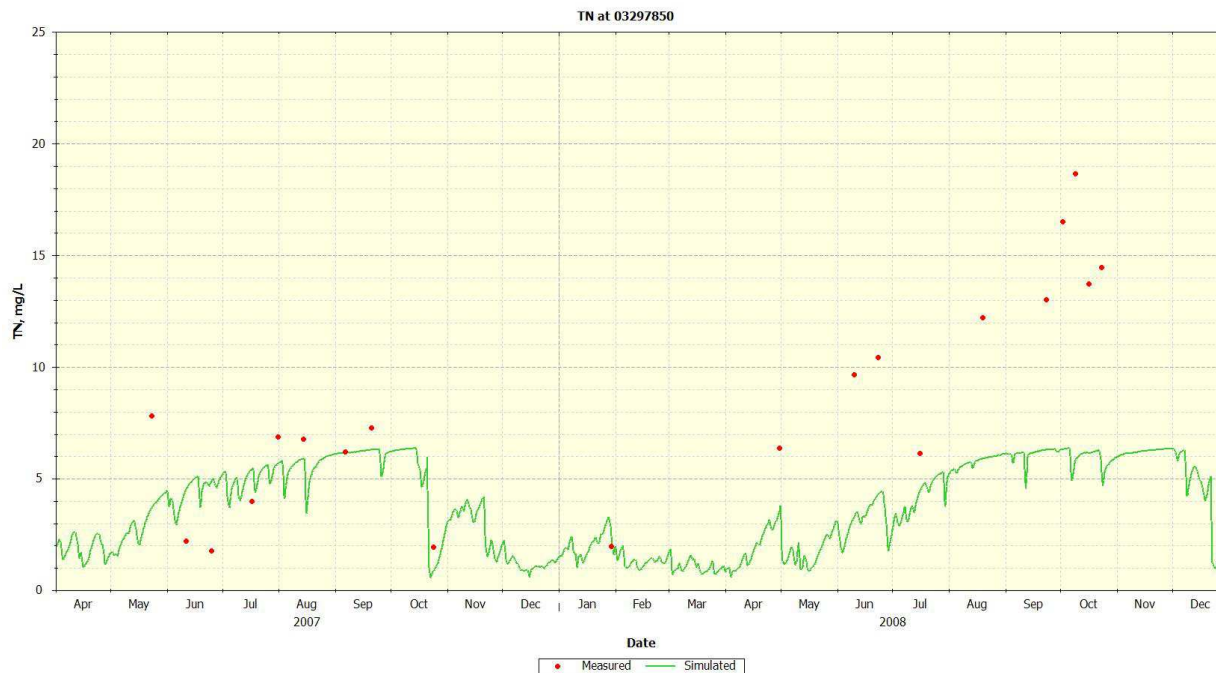


Figure A-82 Modeled vs. Observed TN (mg/L) at 03297850

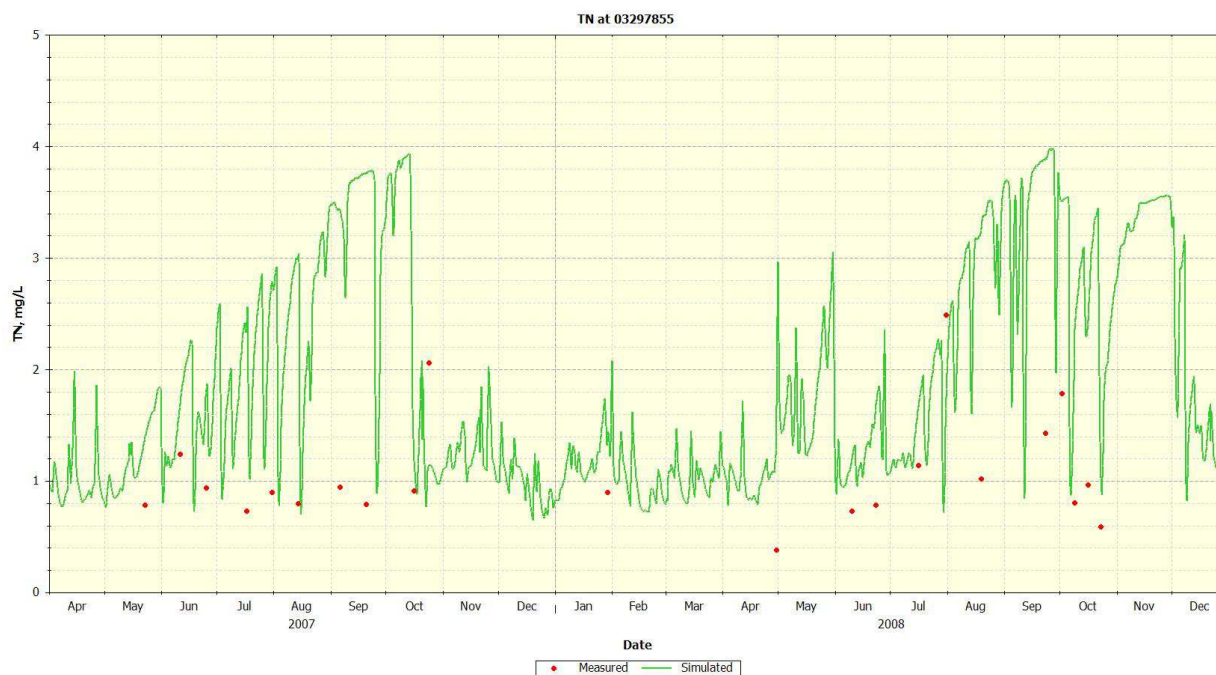


Figure A-83 Modeled vs. Observed TN (mg/L) at 03297855

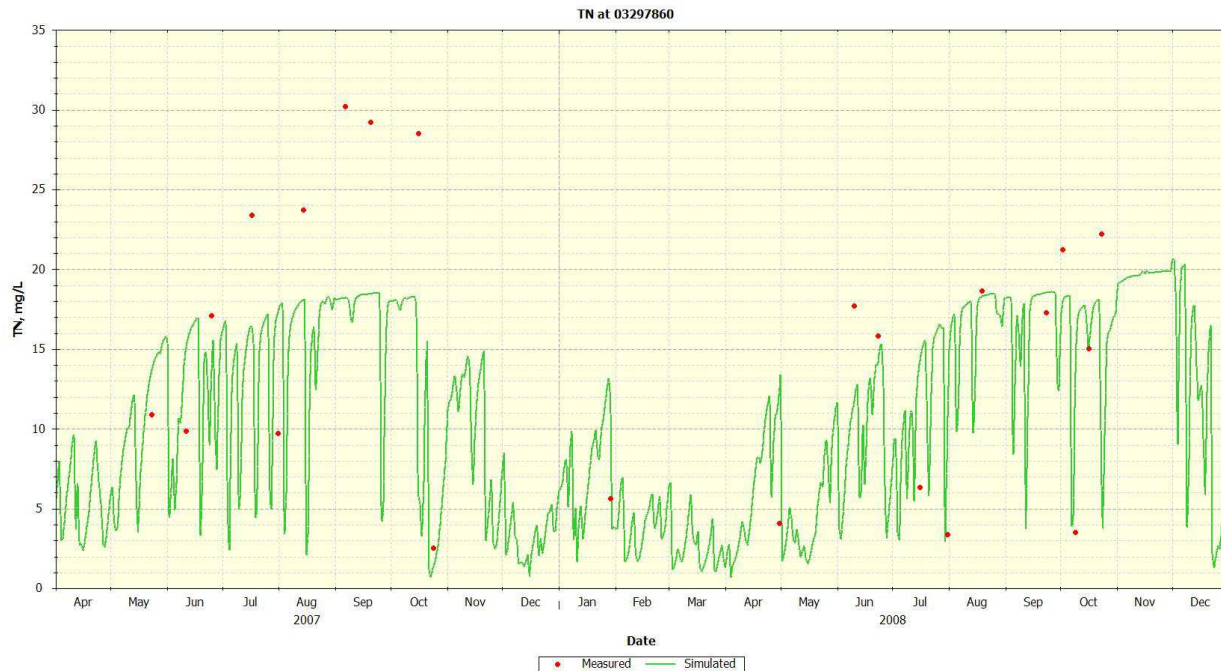


Figure A-84 Modeled vs. Observed TN (mg/L) at 03297860

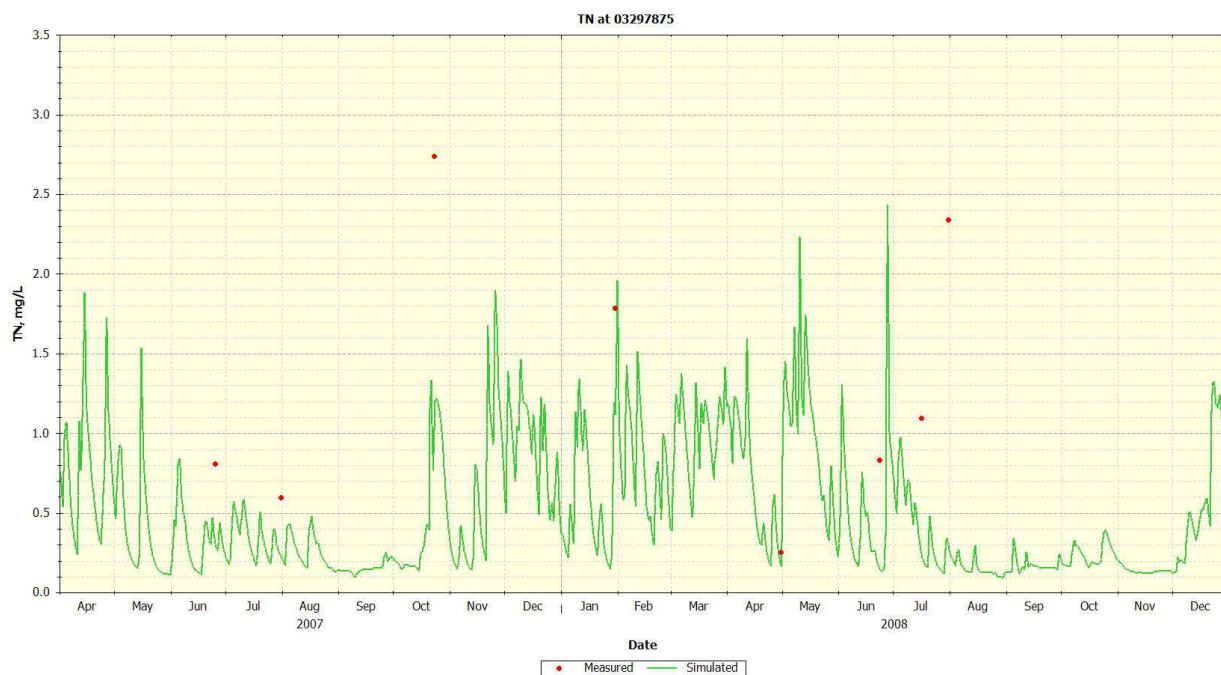


Figure A-85 Modeled vs. Observed TN (mg/L) at 03297875

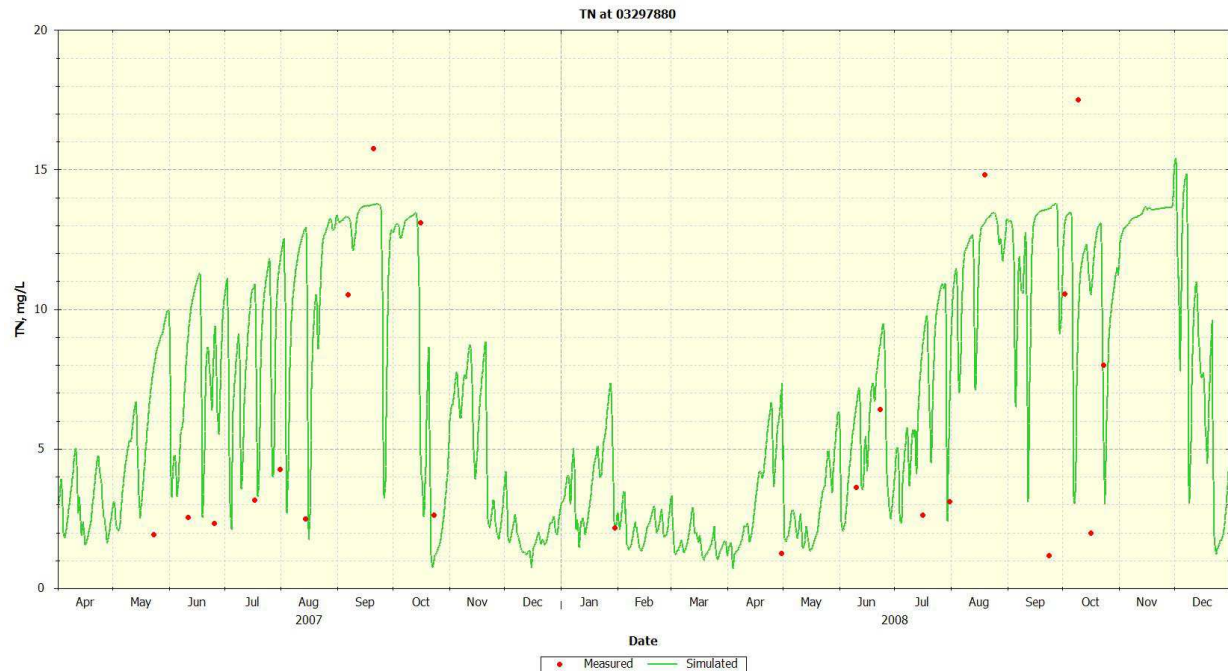


Figure A-86 Modeled vs. Observed TN (mg/L) at 03297880

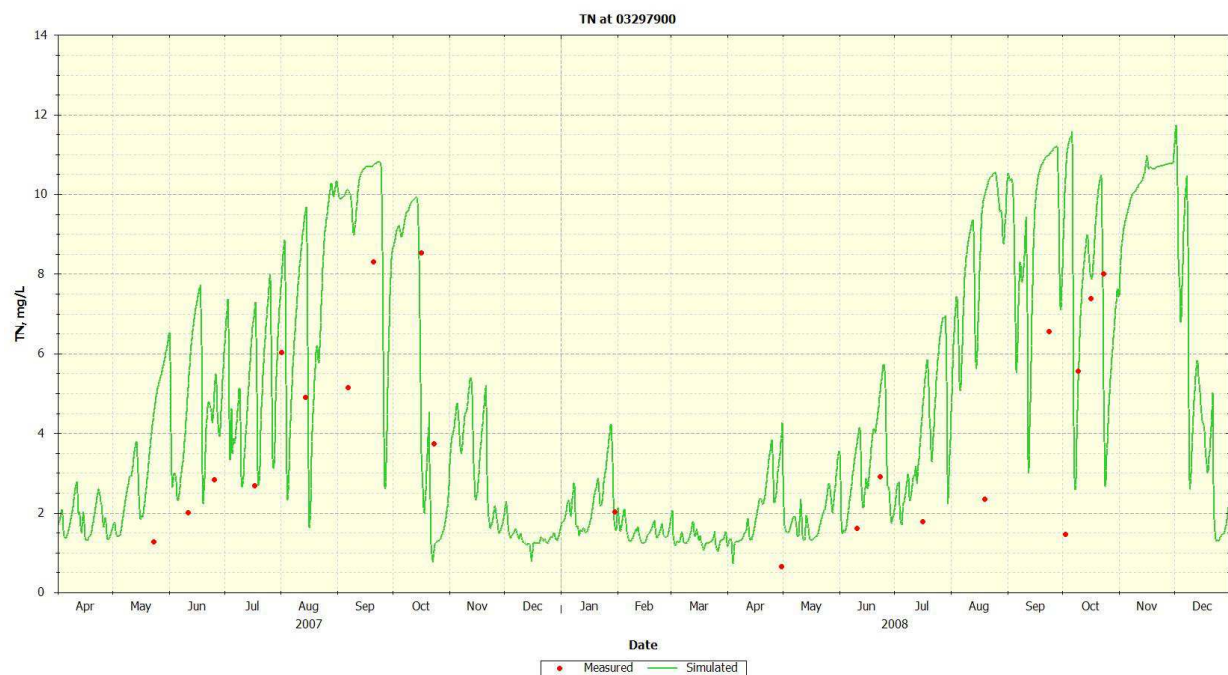


Figure A-87 Modeled vs. Observed TN (mg/L) at 03297900

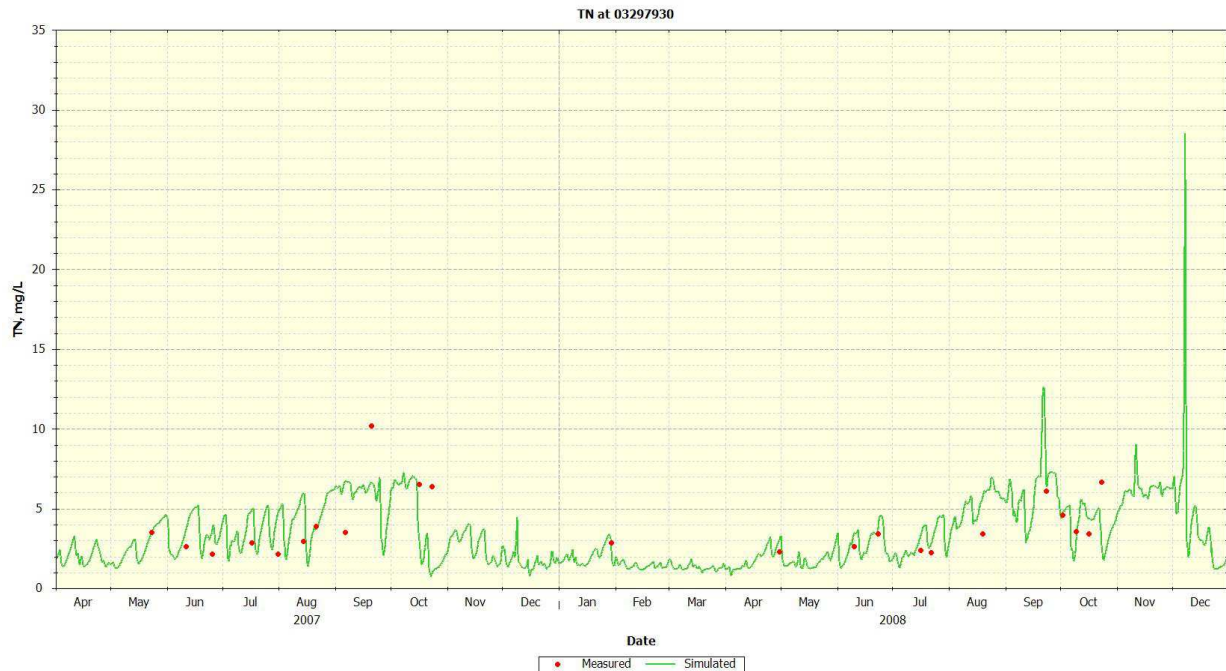


Figure A-88 Modeled vs. Observed TN (mg/L) at 03297930

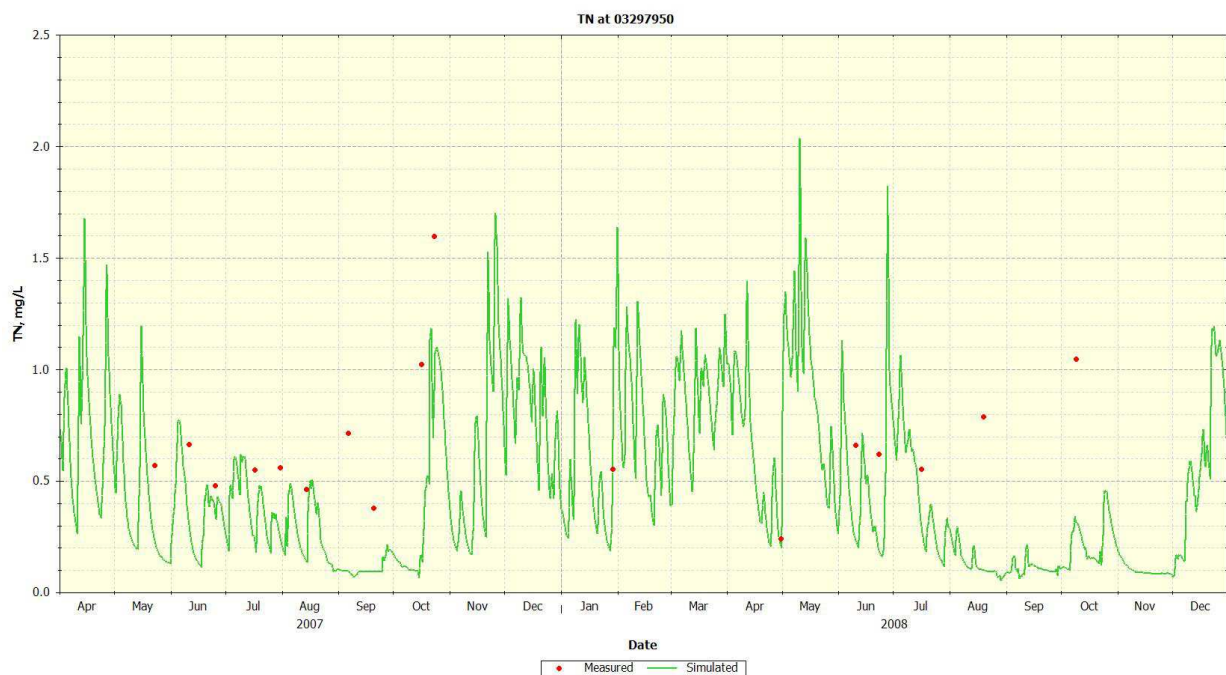


Figure A-89 Modeled vs. Observed TN (mg/L) at 03297950

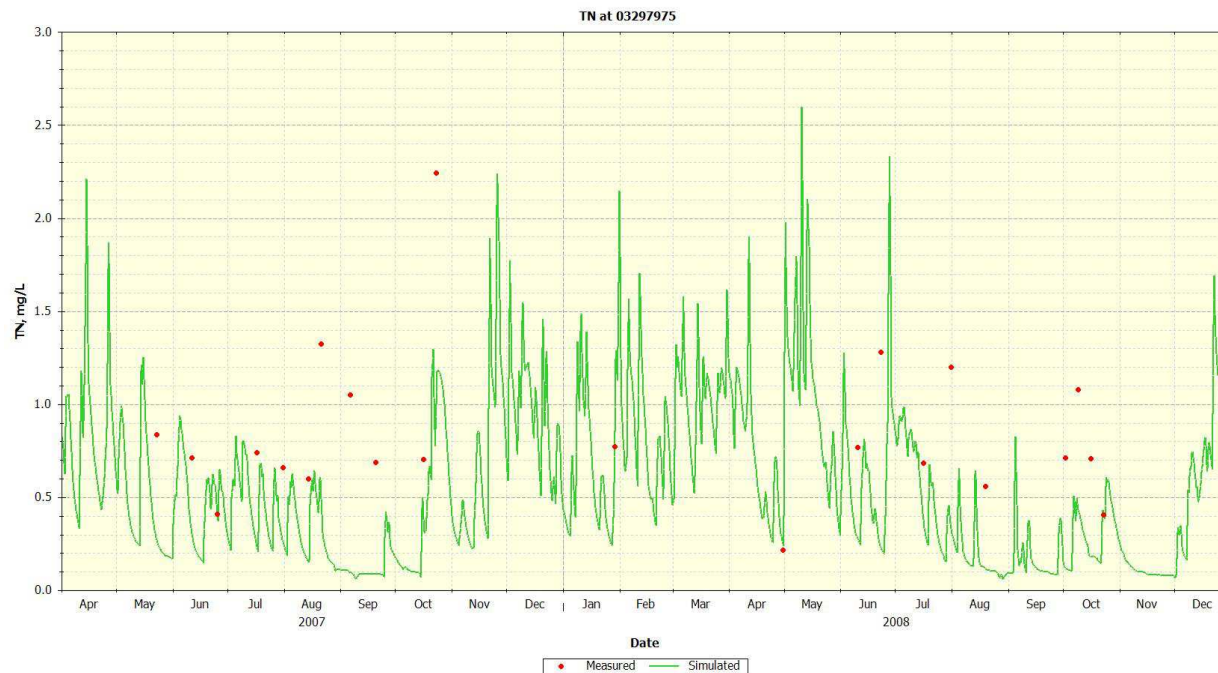


Figure A-90 Modeled vs. Observed TN (mg/L) at 03297975

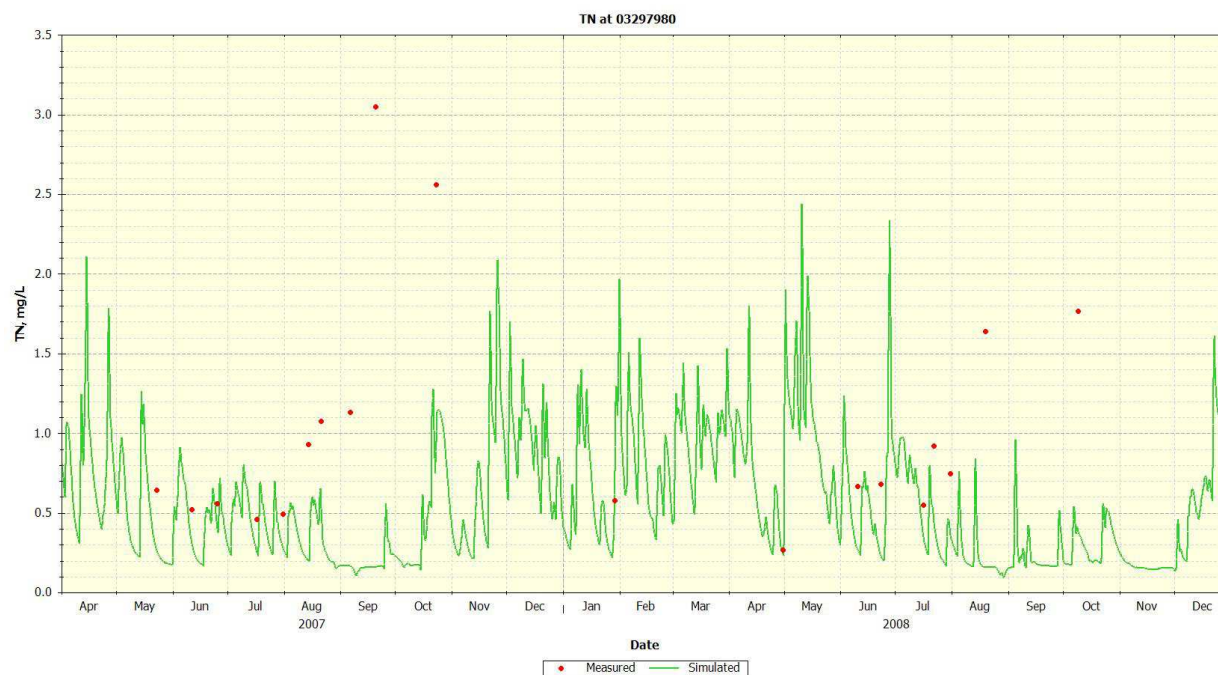


Figure A-91 Modeled vs. Observed TN (mg/L) at 03297980

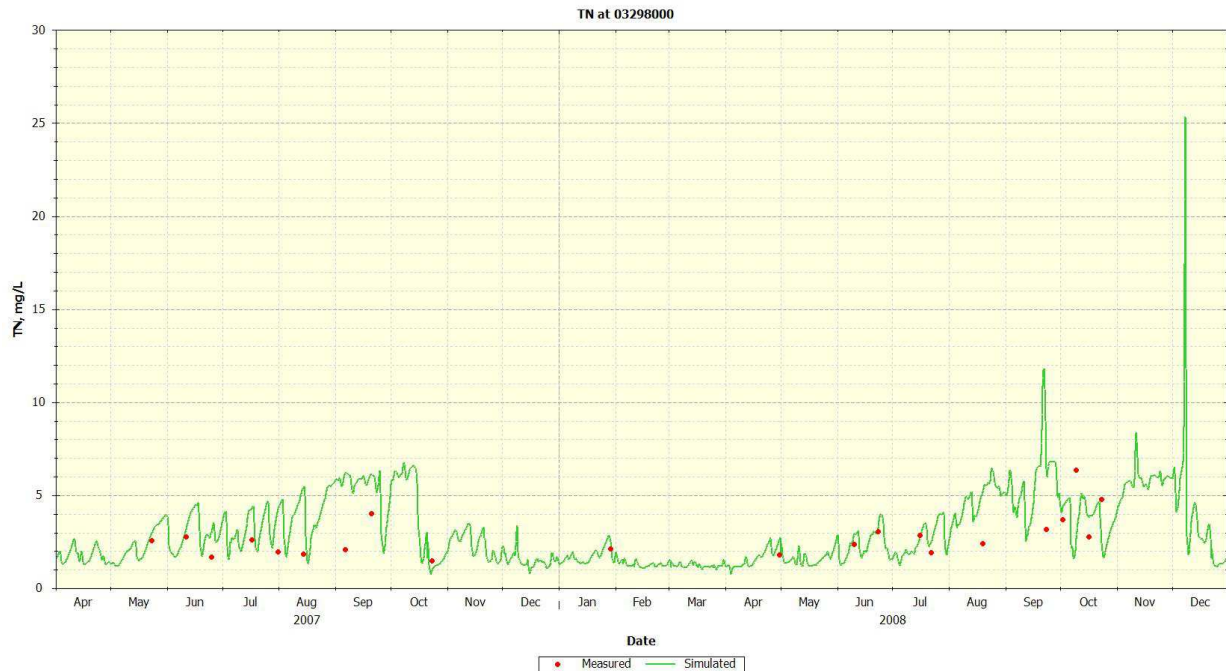


Figure A-92 Modeled vs. Observed TN (mg/L) at 03298000

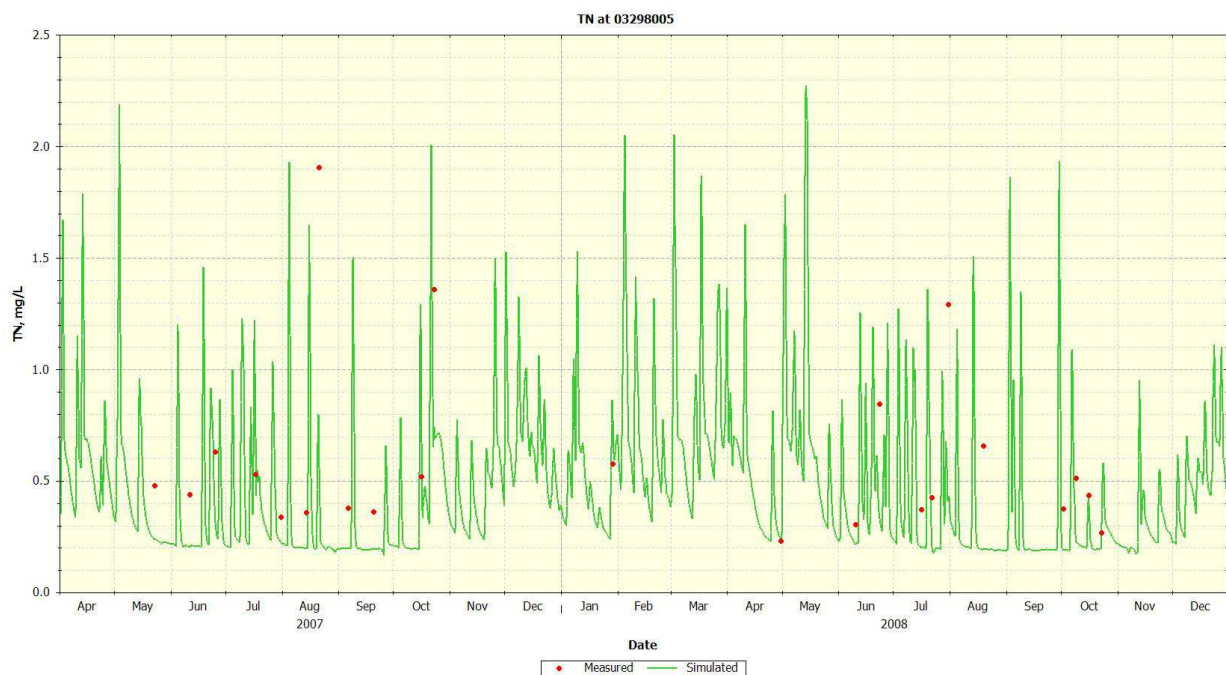


Figure A-93 Modeled vs. Observed TN (mg/L) at 03298005

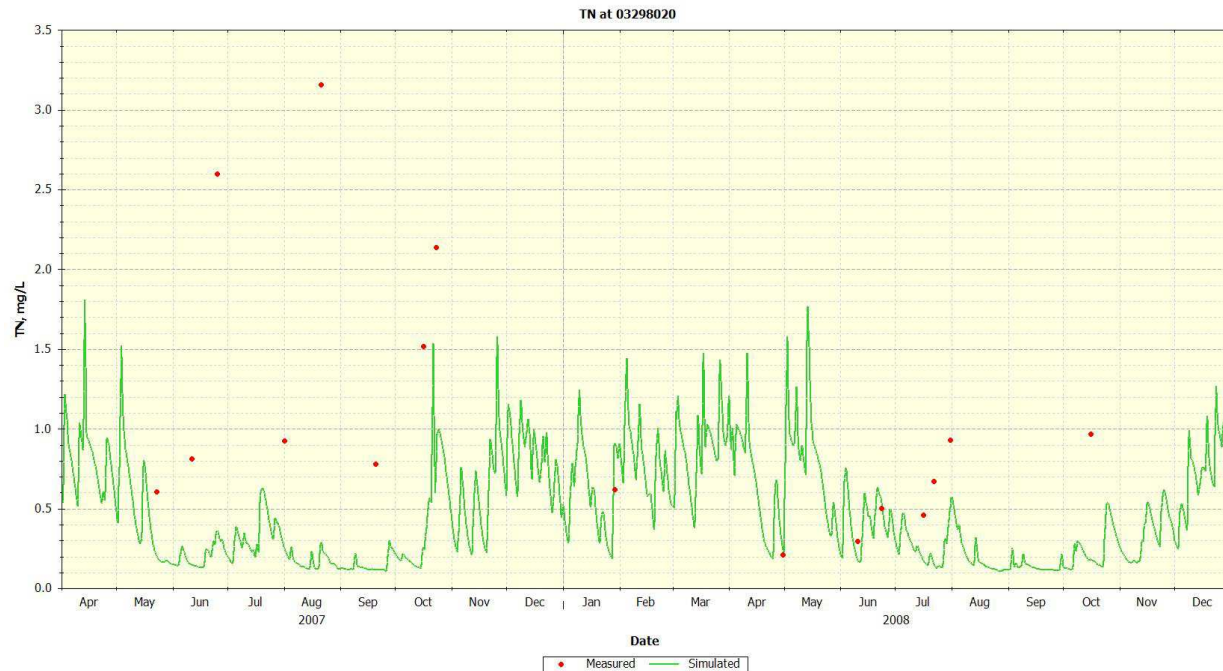


Figure A-94 Modeled vs. Observed TN (mg/L) at 03298020

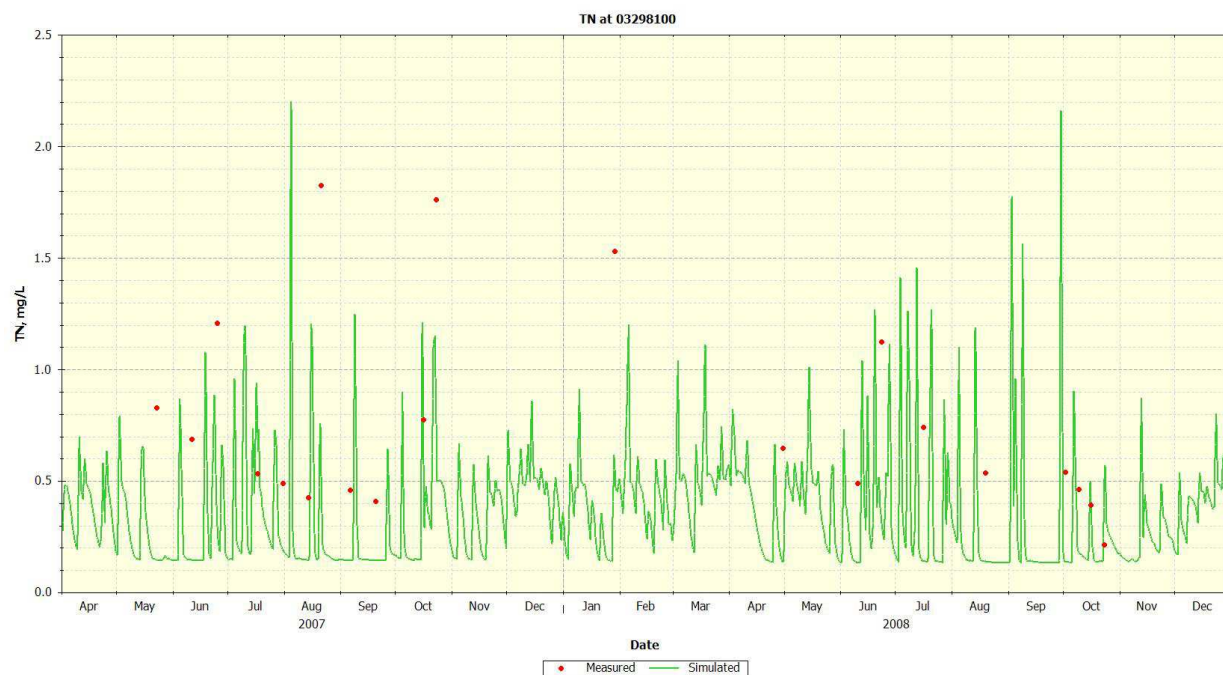


Figure A-95 Modeled vs. Observed TN (mg/L) at 03298100

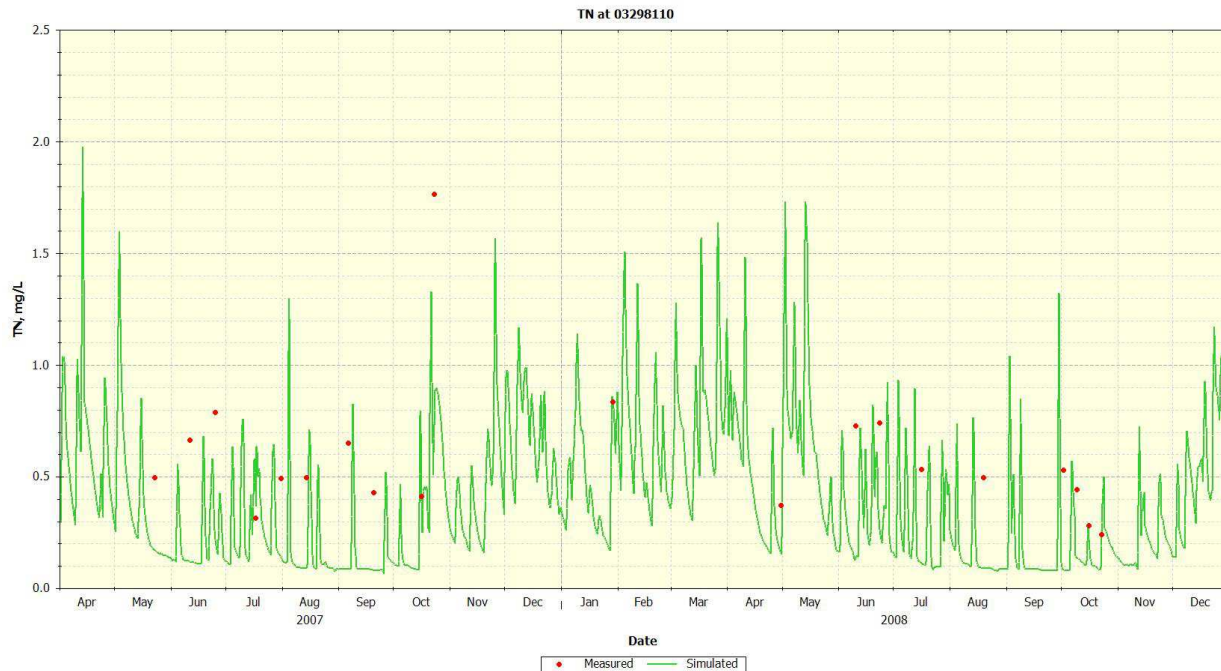


Figure A-96 Modeled vs. Observed TN (mg/L) at 03298110

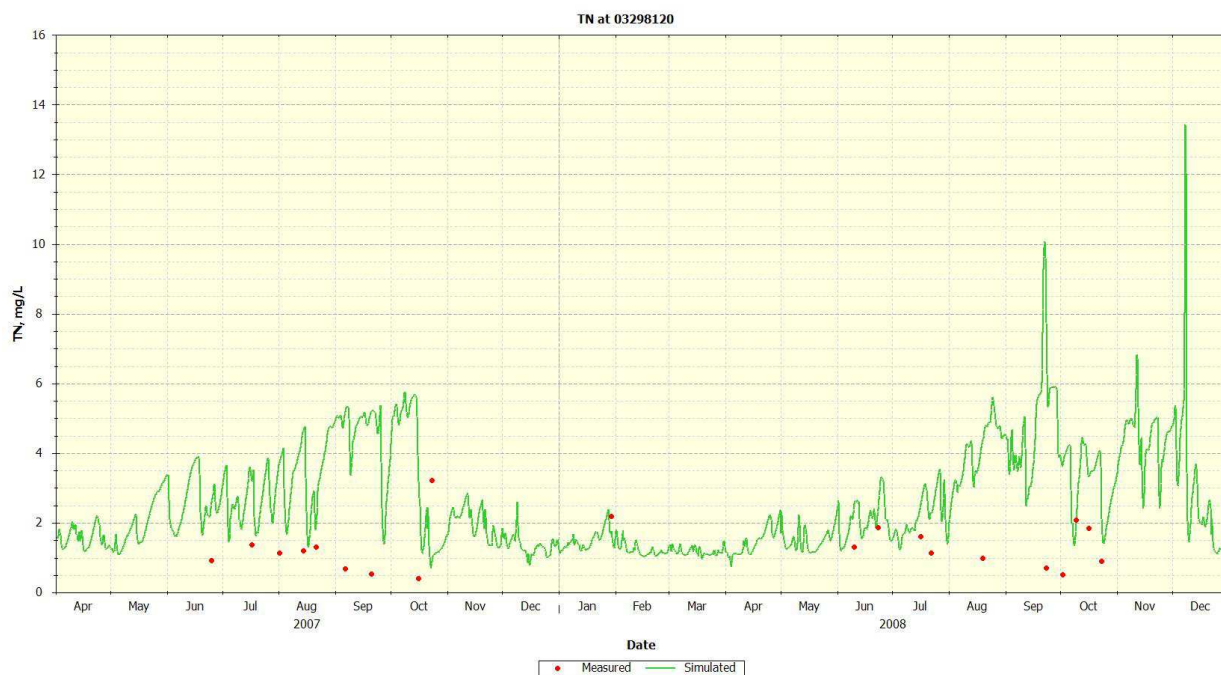


Figure A-97 Modeled vs. Observed TN (mg/L) at 03298120

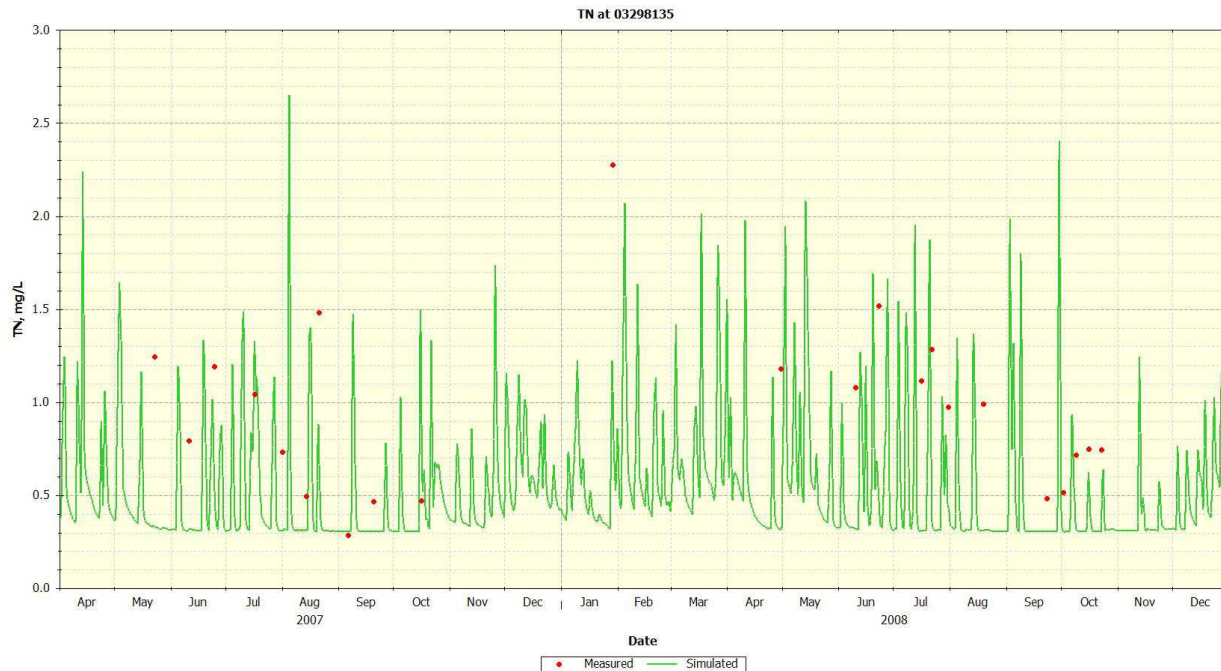


Figure A-98 Modeled vs. Observed TN (mg/L) at 03298135

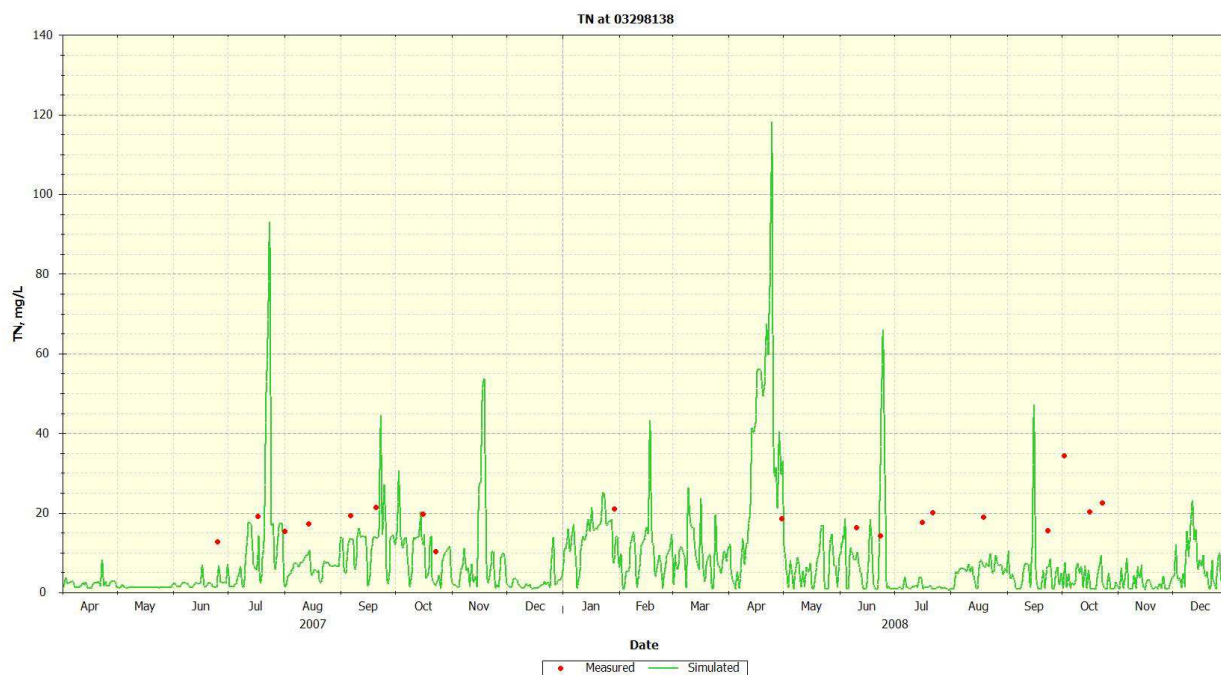


Figure A-99 Modeled vs. Observed TN (mg/L) at 03298138

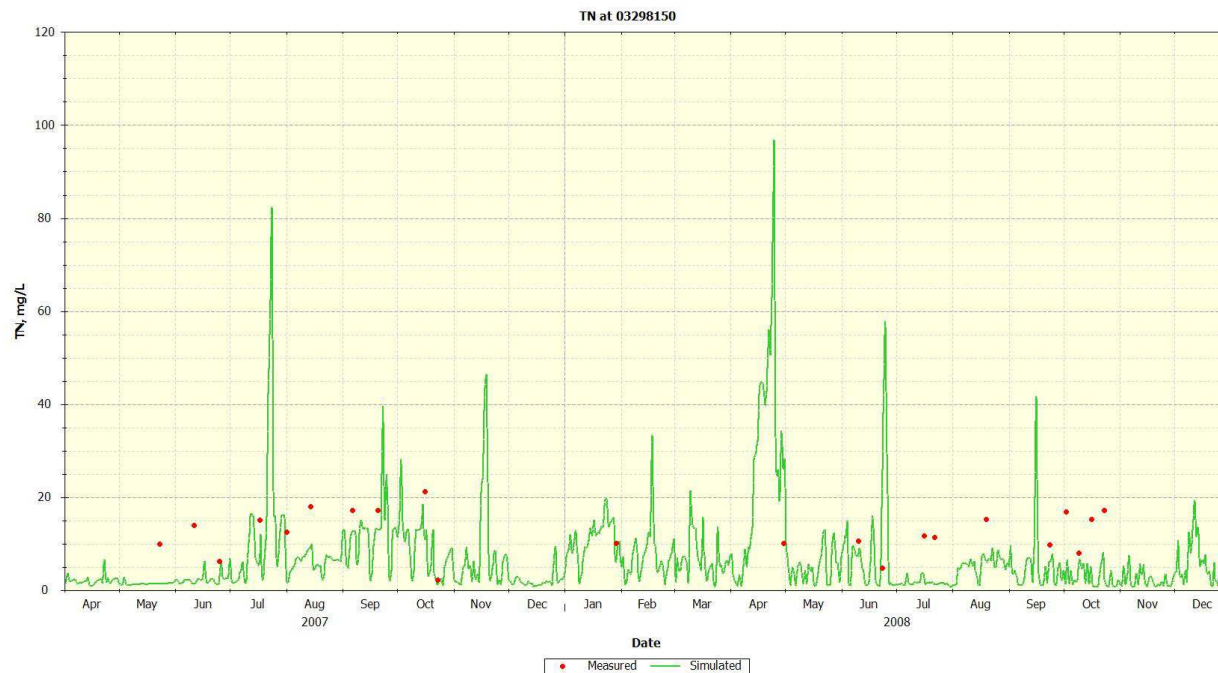


Figure A-100 Modeled vs. Observed TN (mg/L) at 03298150

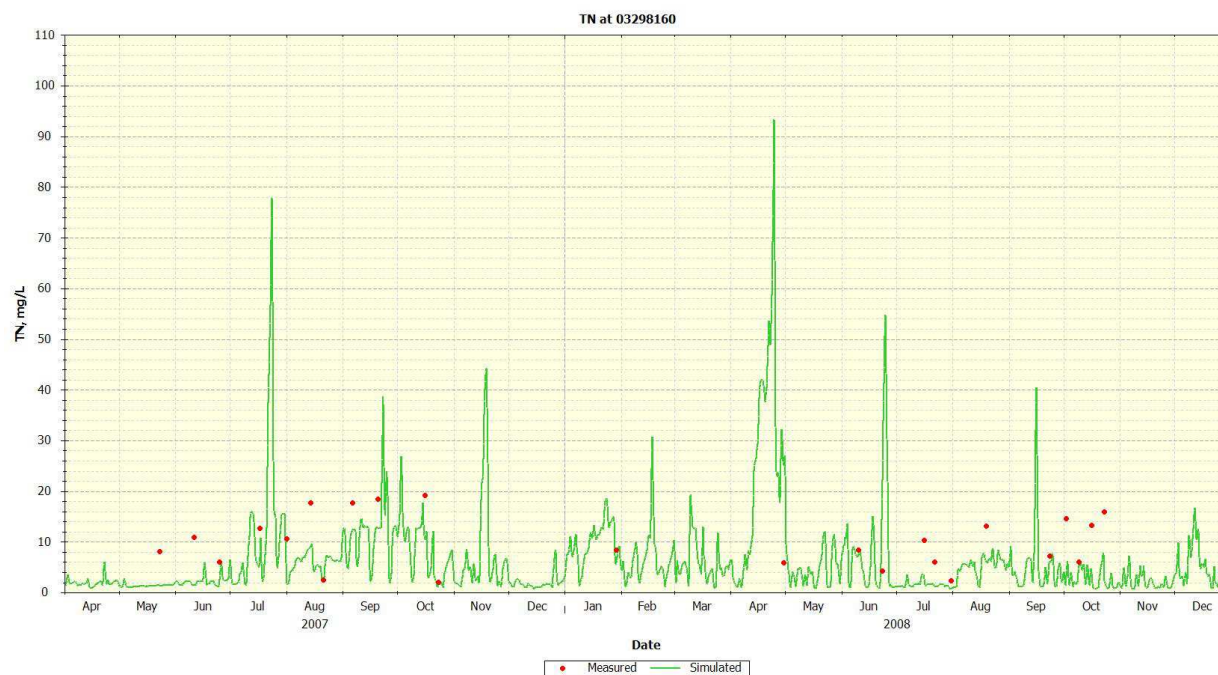


Figure A-101 Modeled vs. Observed TN (mg/L) at 03298160

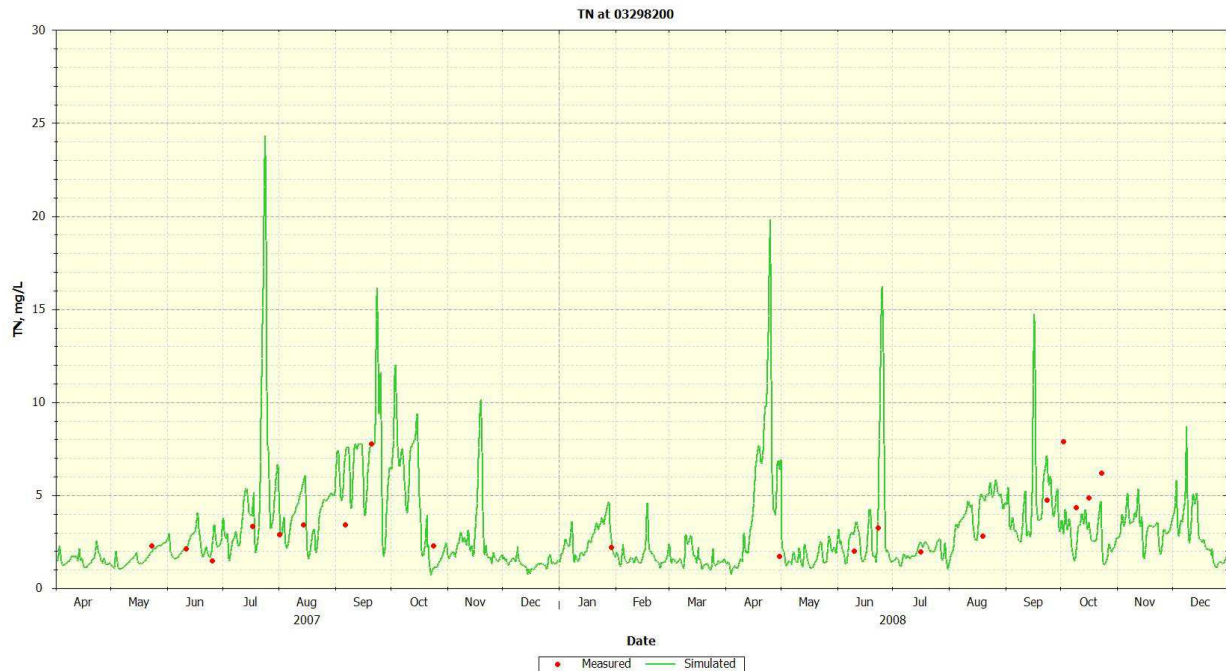


Figure A-102 Modeled vs. Observed TN (mg/L) at 03298200

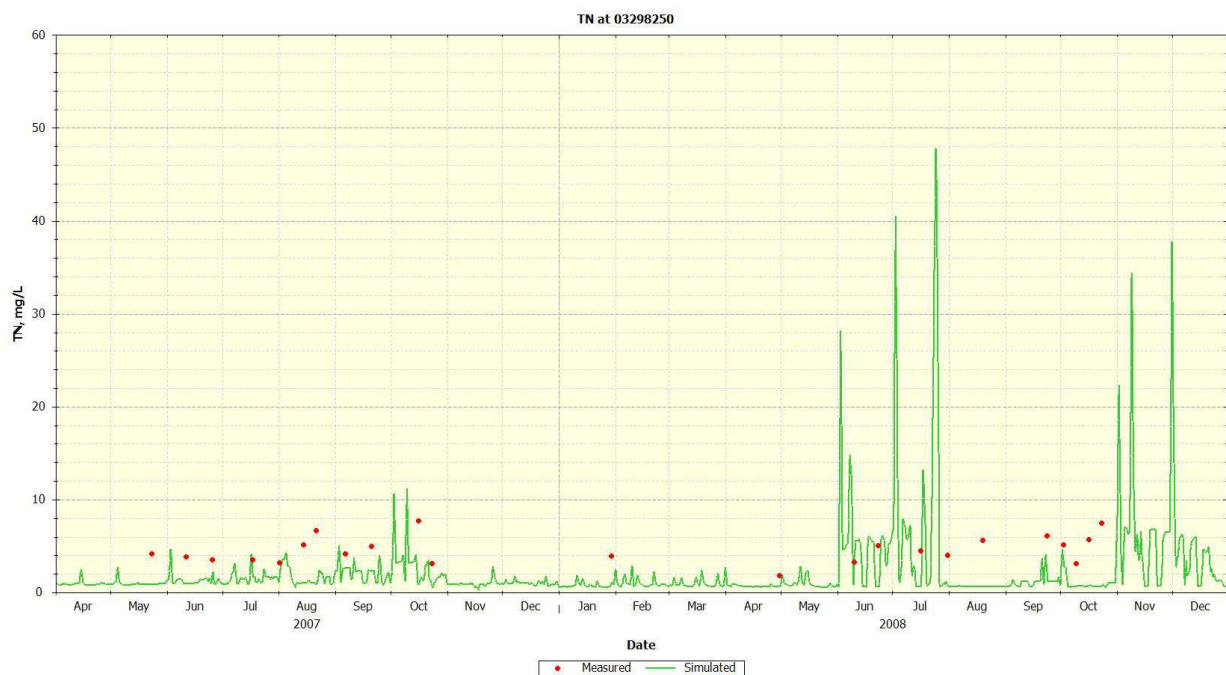


Figure A-103 Modeled vs. Observed TN (mg/L) at 03298250

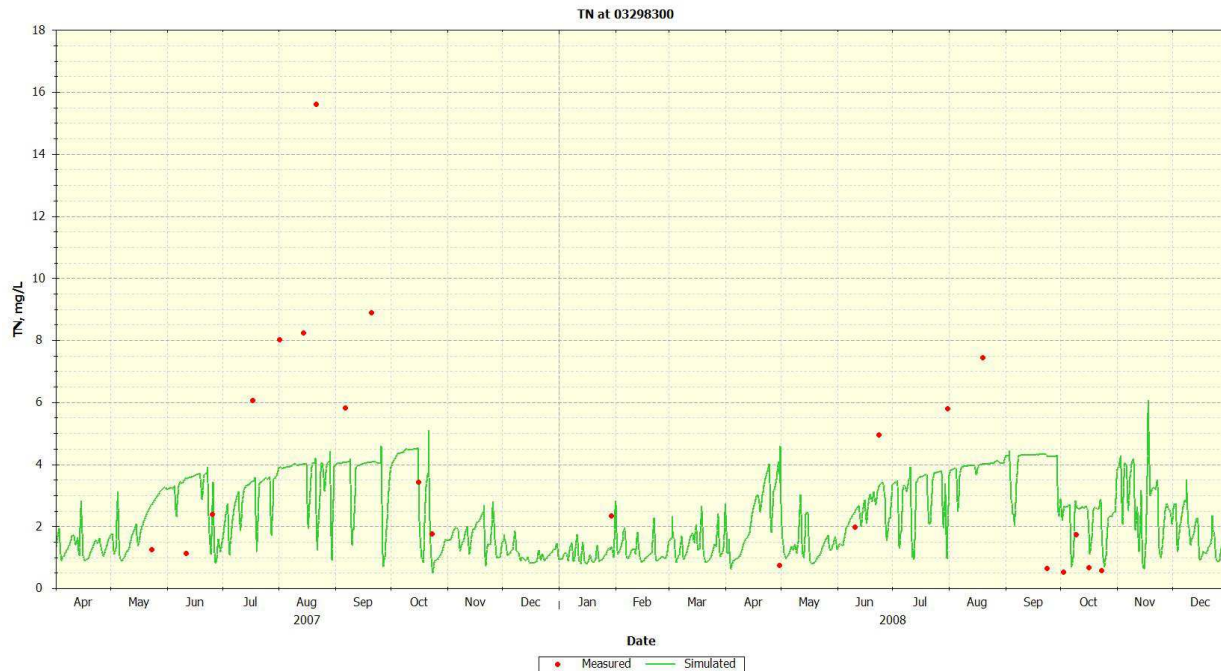


Figure A-104 Modeled vs. Observed TN (mg/L) at 03298300

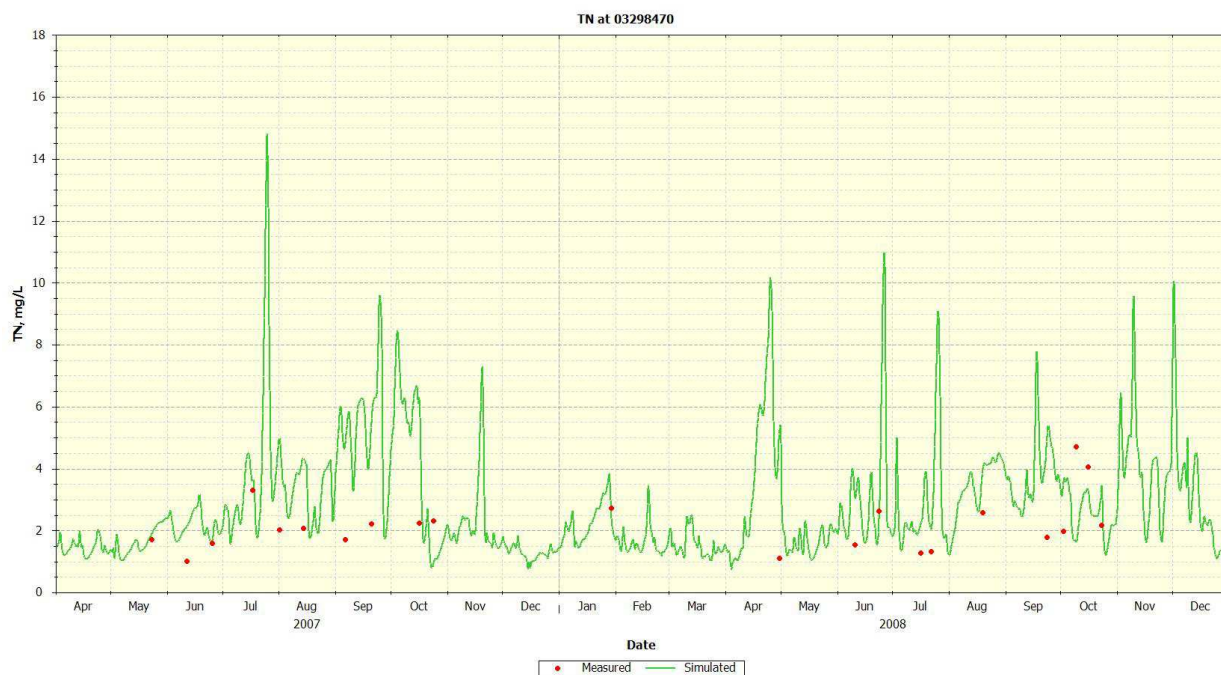
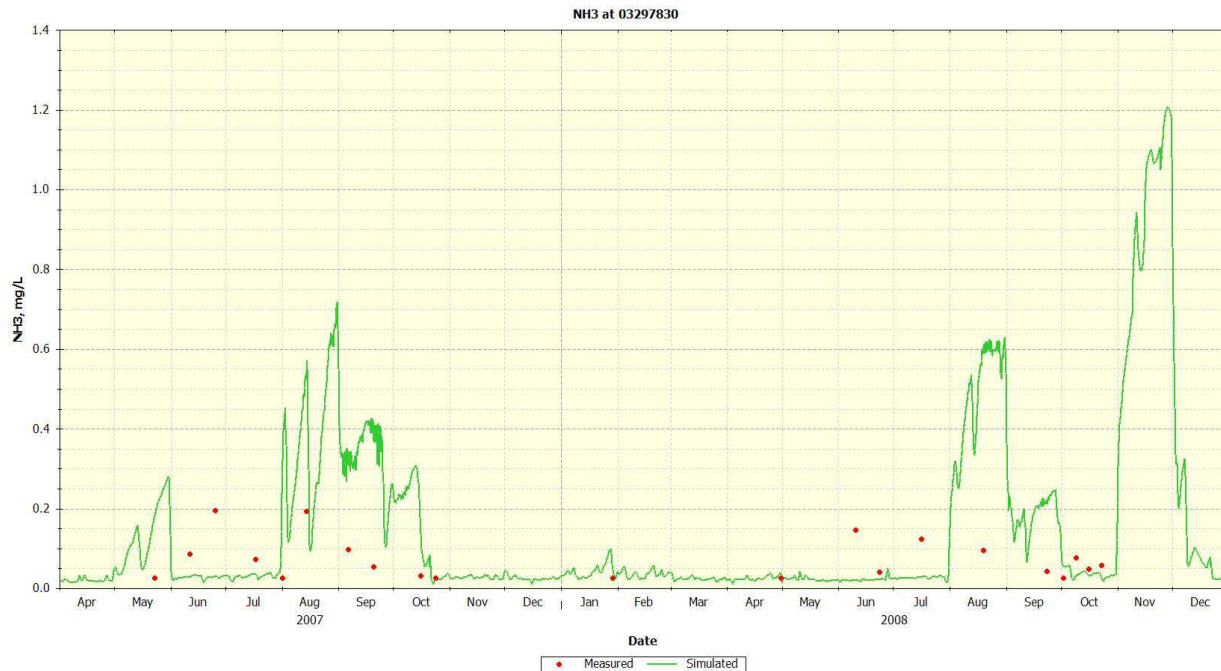
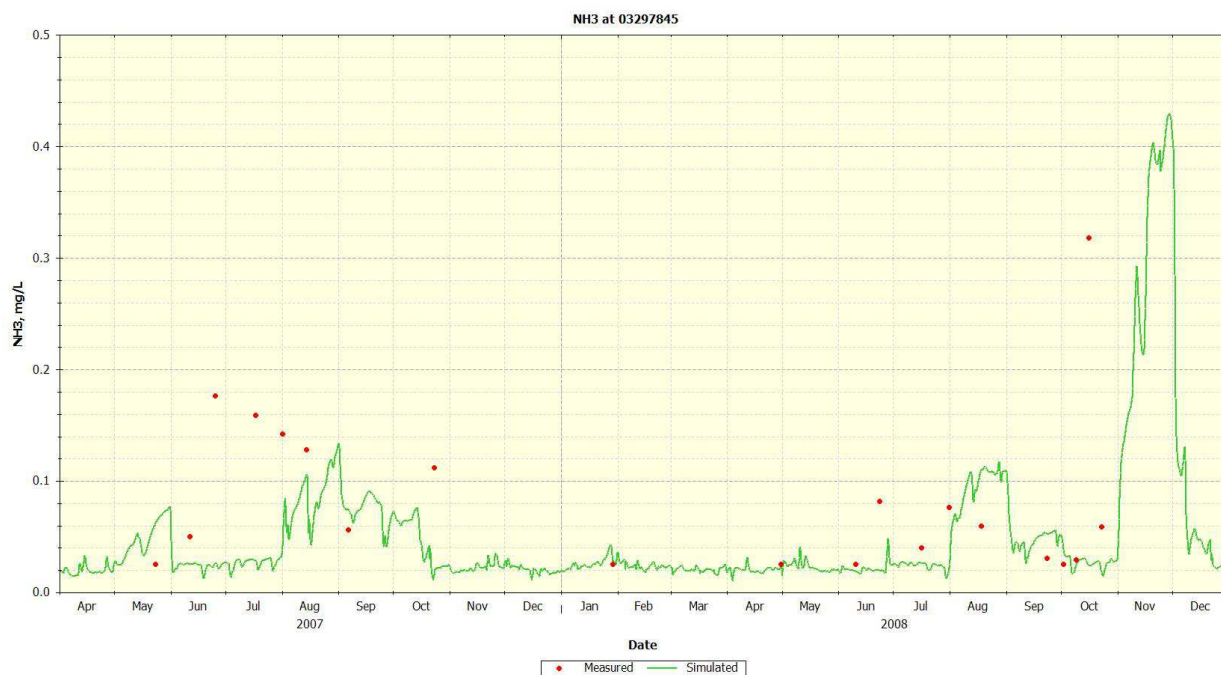


Figure A-105 Modeled vs. Observed TN (mg/L) at 03298470

Figure A-106 Modeled vs. Observed NH₃ (mg/L) at 03297830Figure A-107 Modeled vs. Observed NH₃ (mg/L) at 03297845

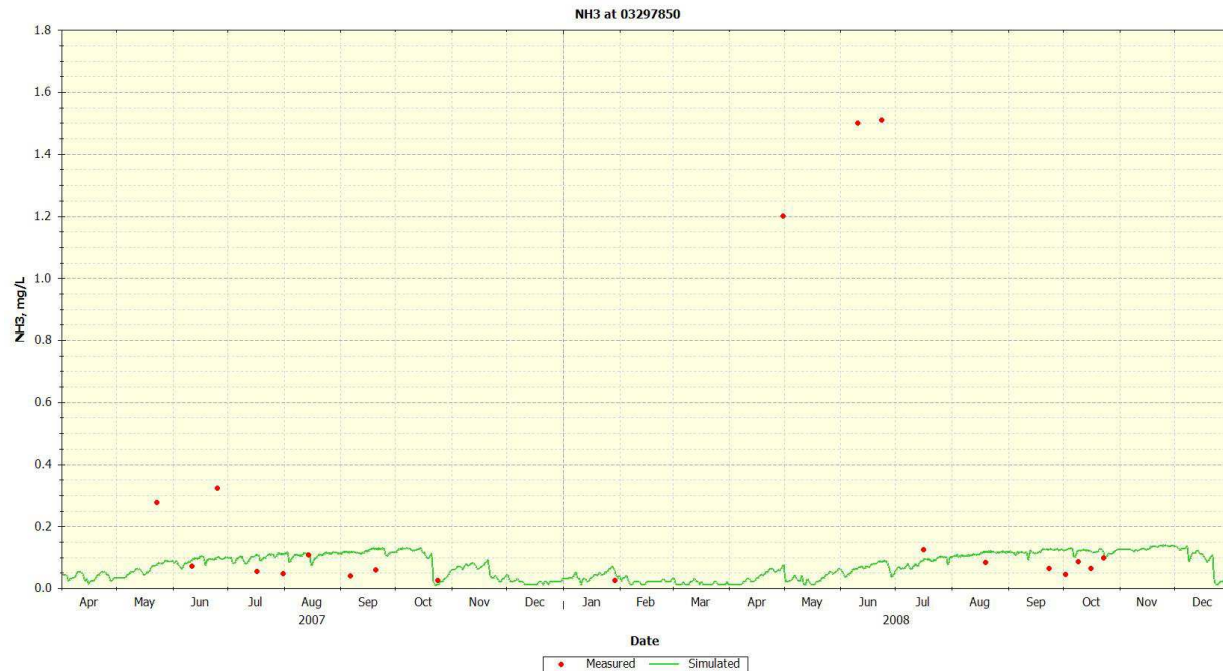


Figure A-108 Modeled vs. Observed NH₃ (mg/L) at 03297850

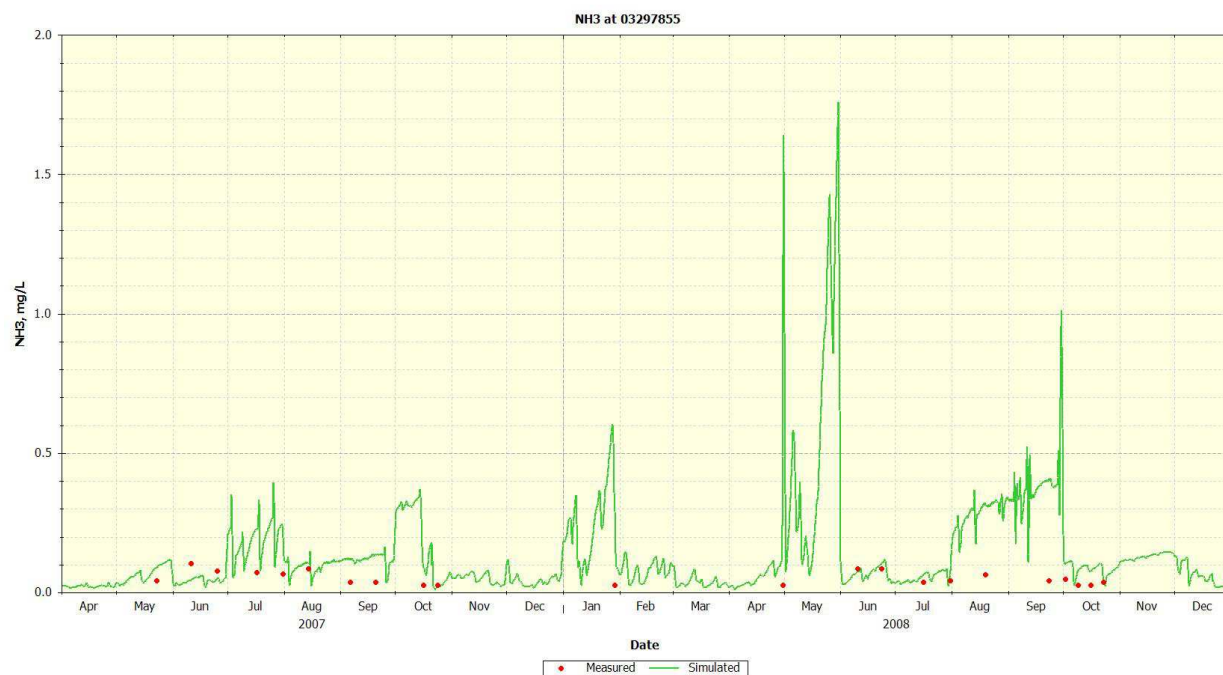
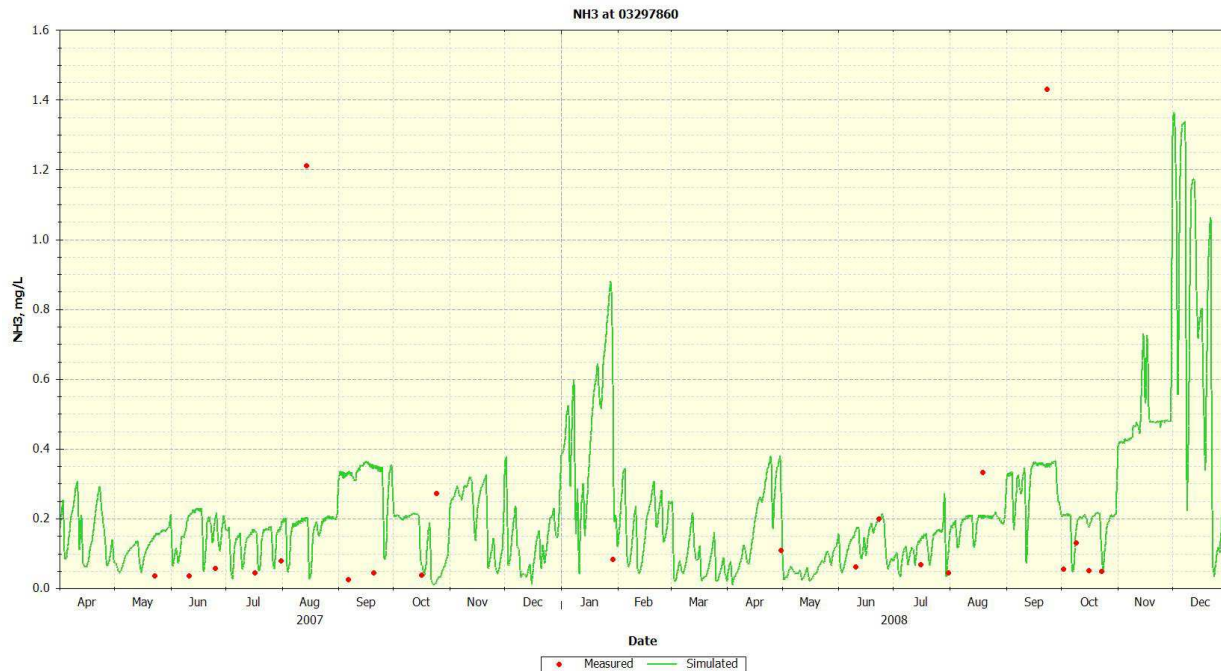
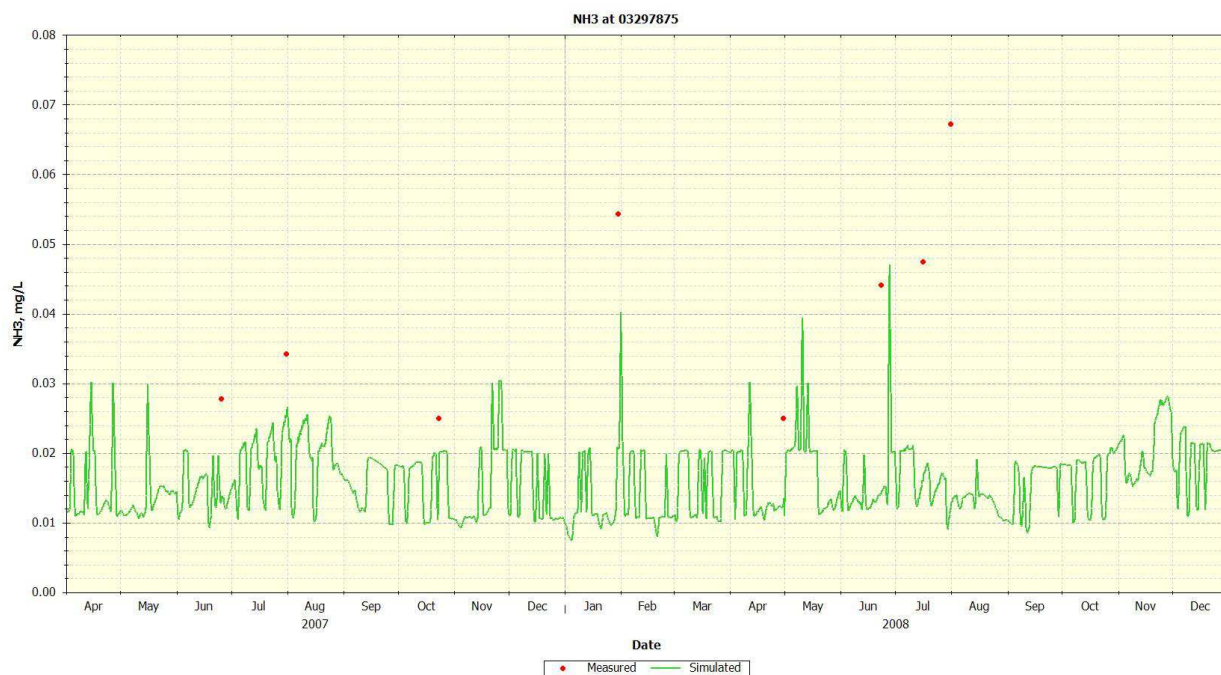
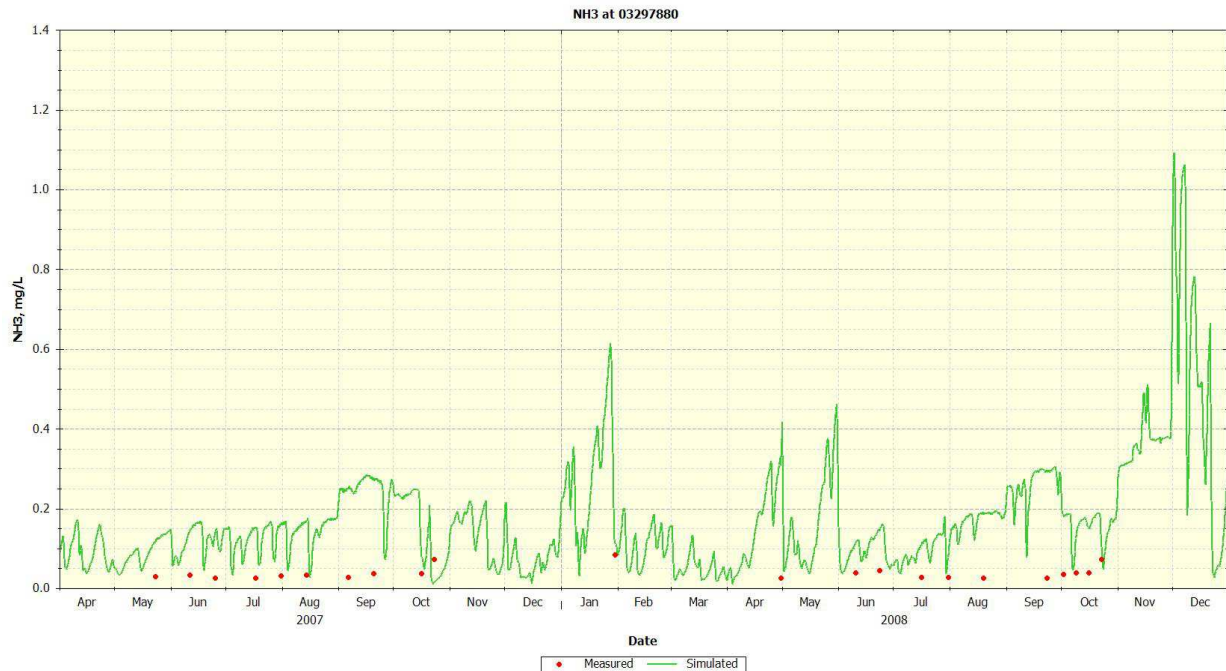
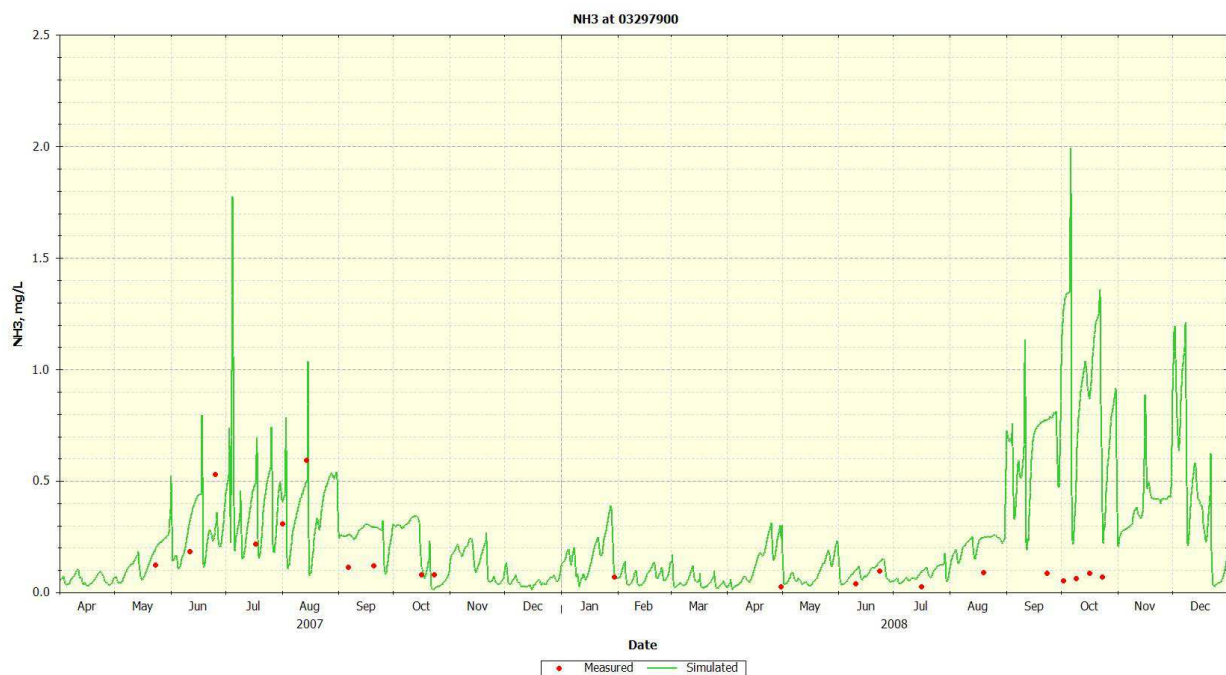
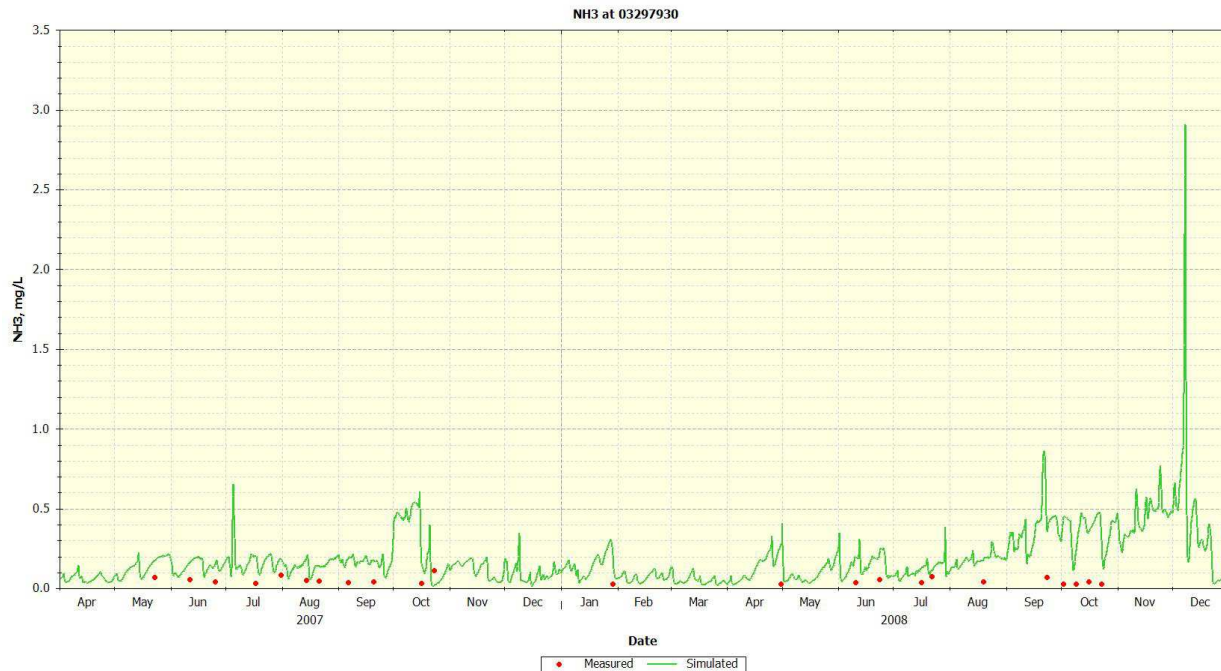
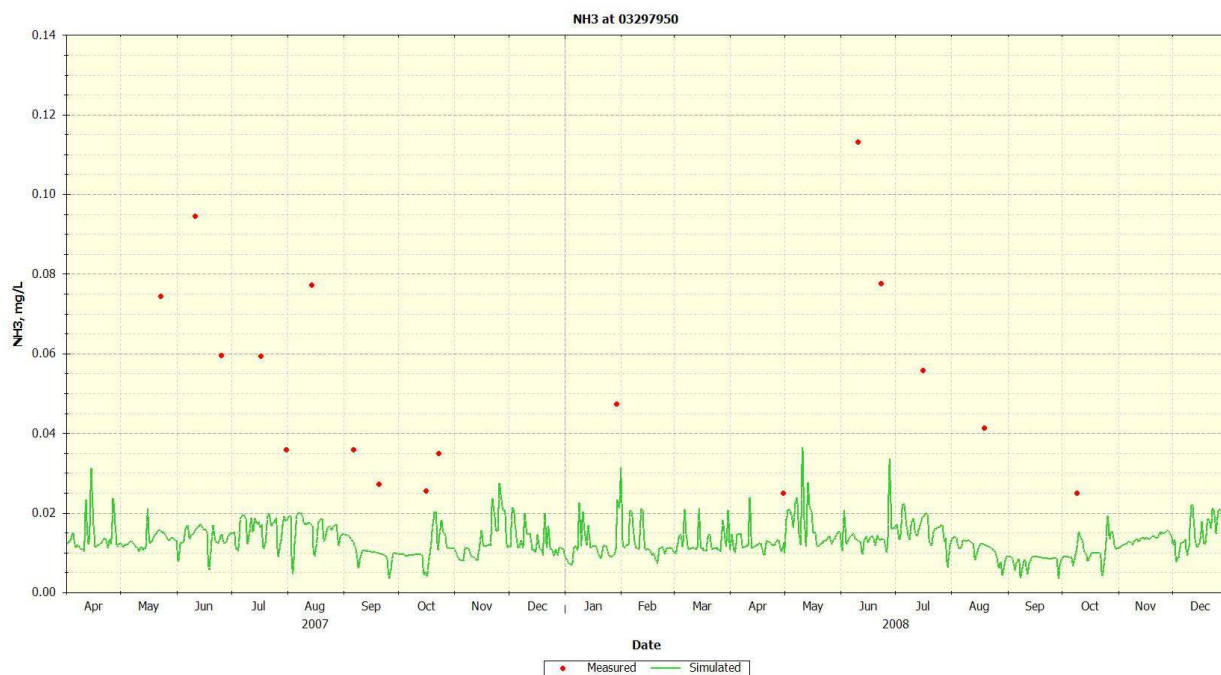
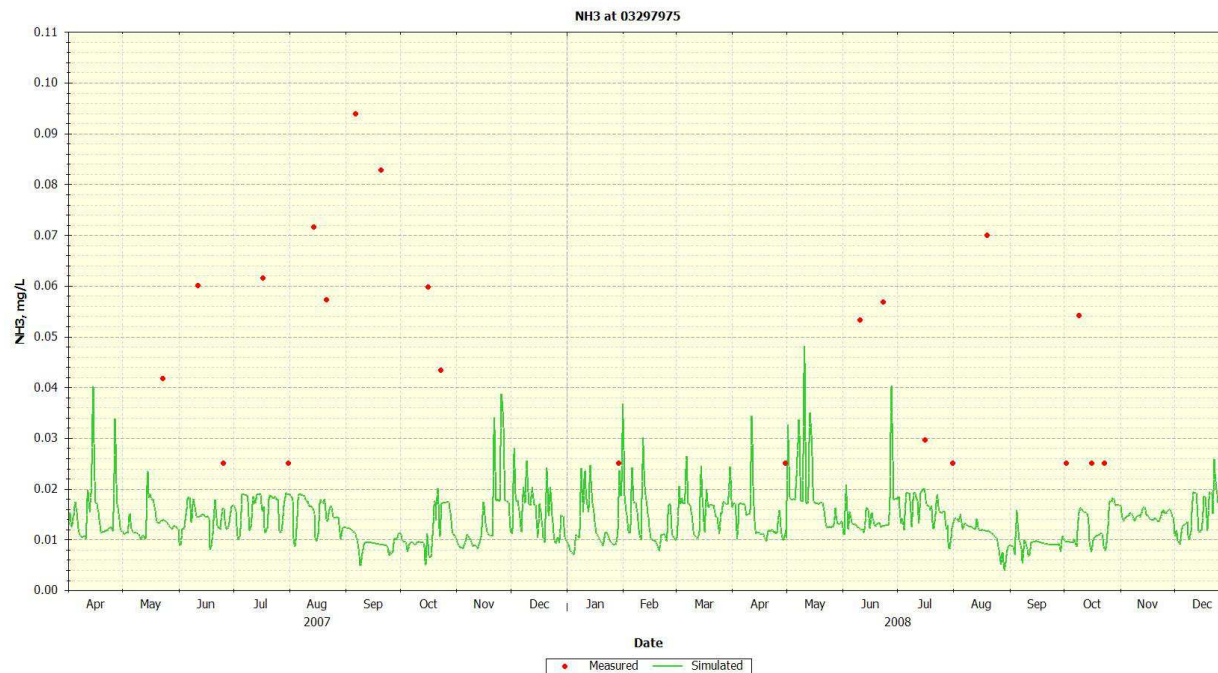
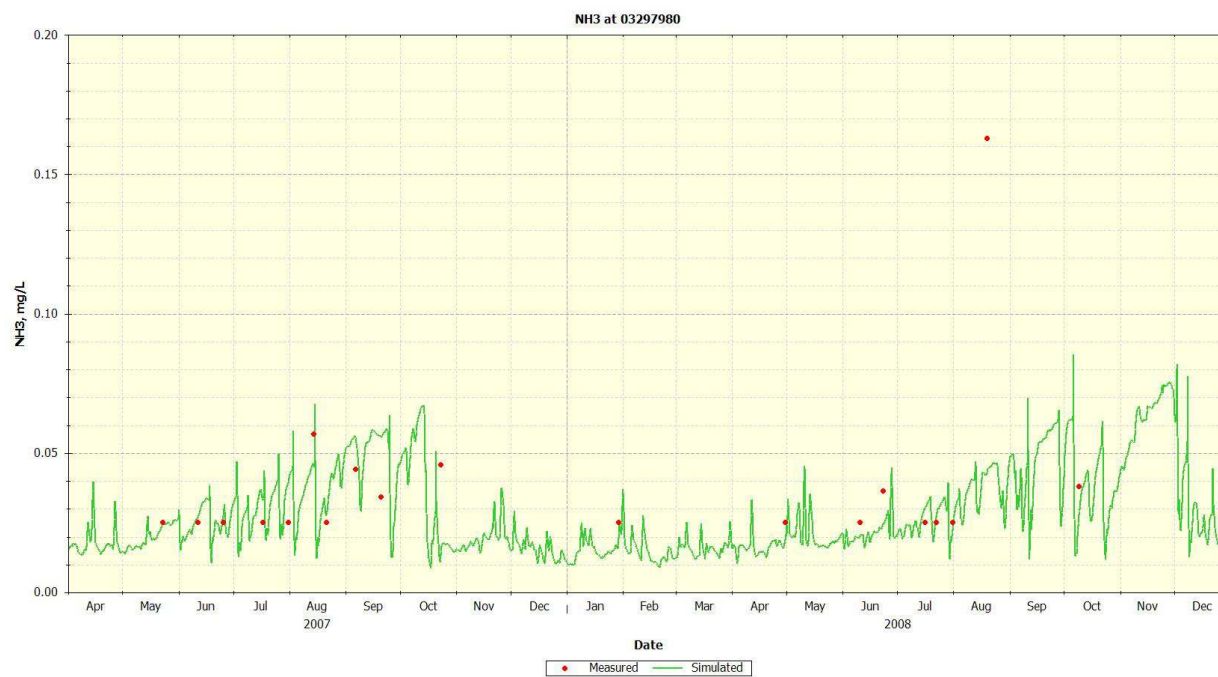


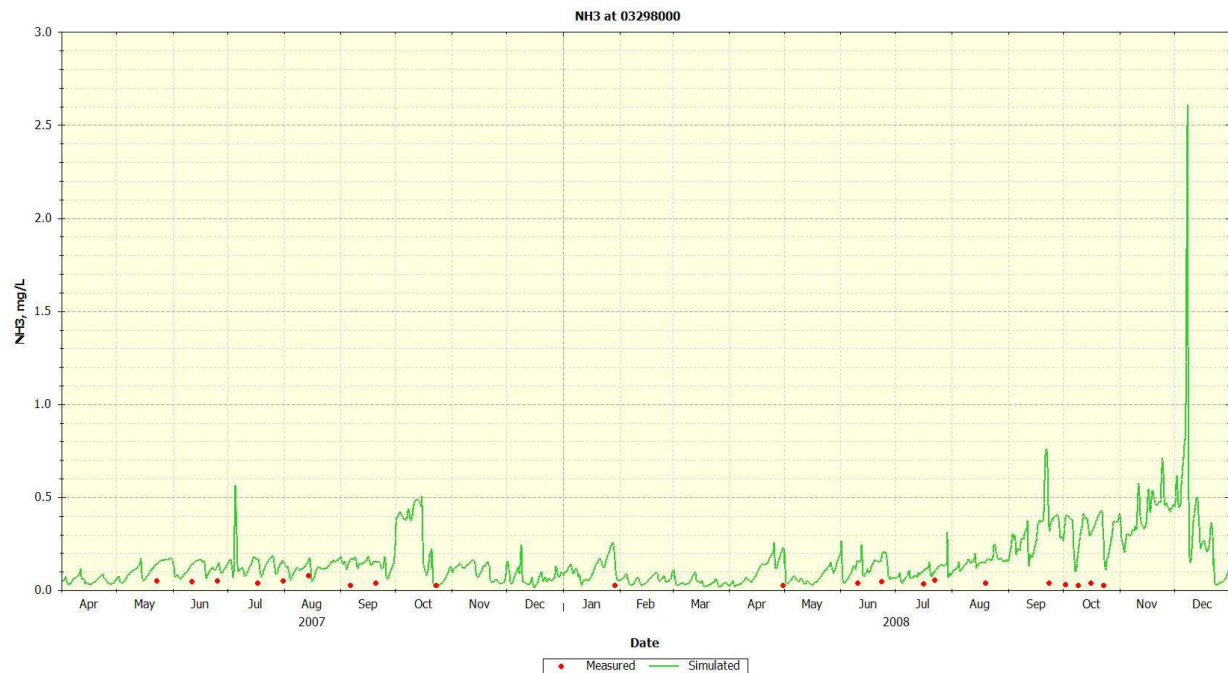
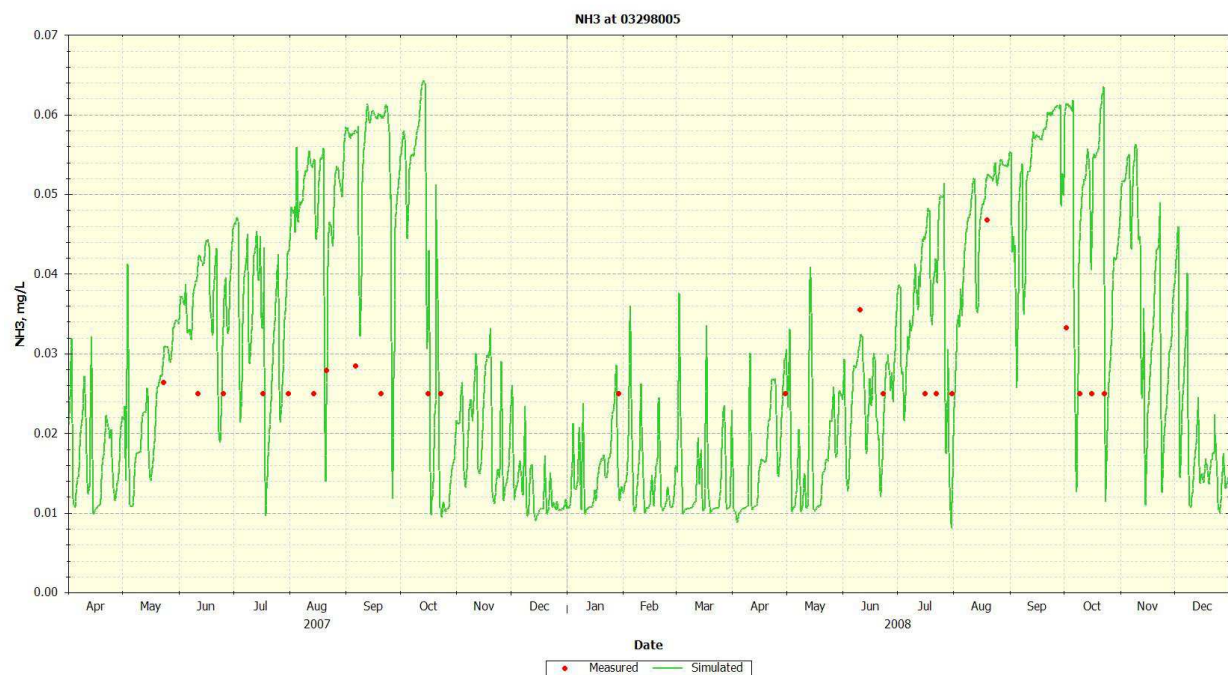
Figure A-109 Modeled vs. Observed NH₃ (mg/L) at 03297855

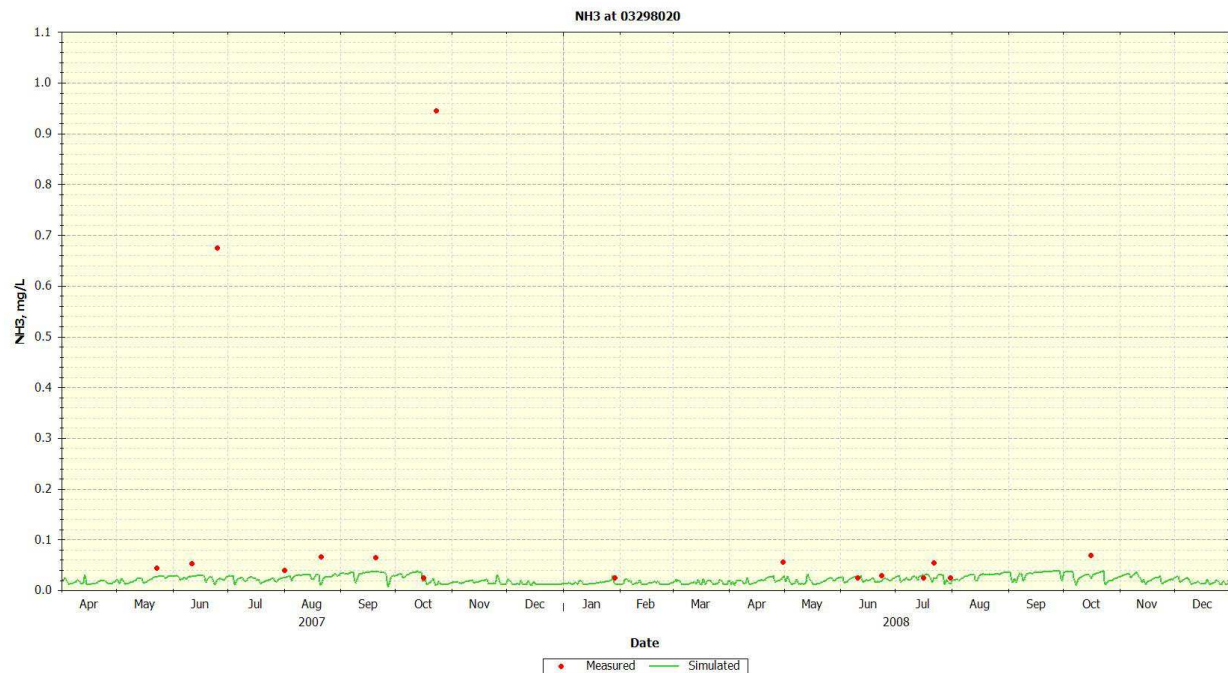
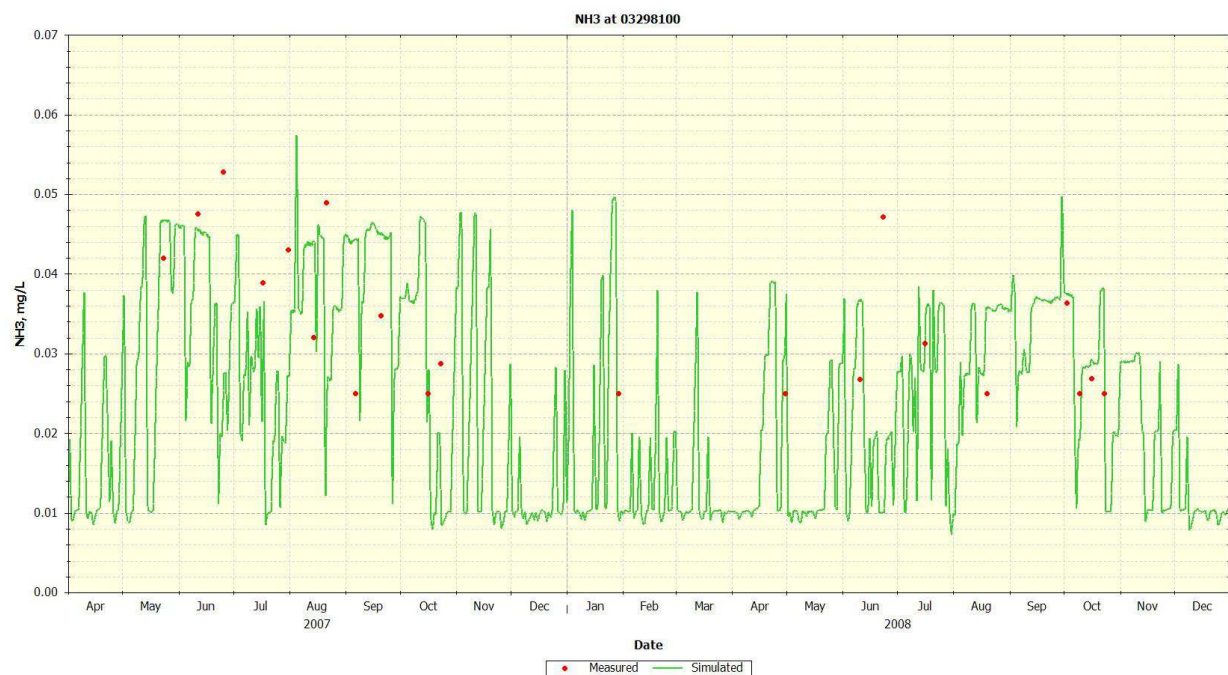
Figure A-110 Modeled vs. Observed NH₃ (mg/L) at 03297860Figure A-111 Modeled vs. Observed NH₃ (mg/L) at 03297875

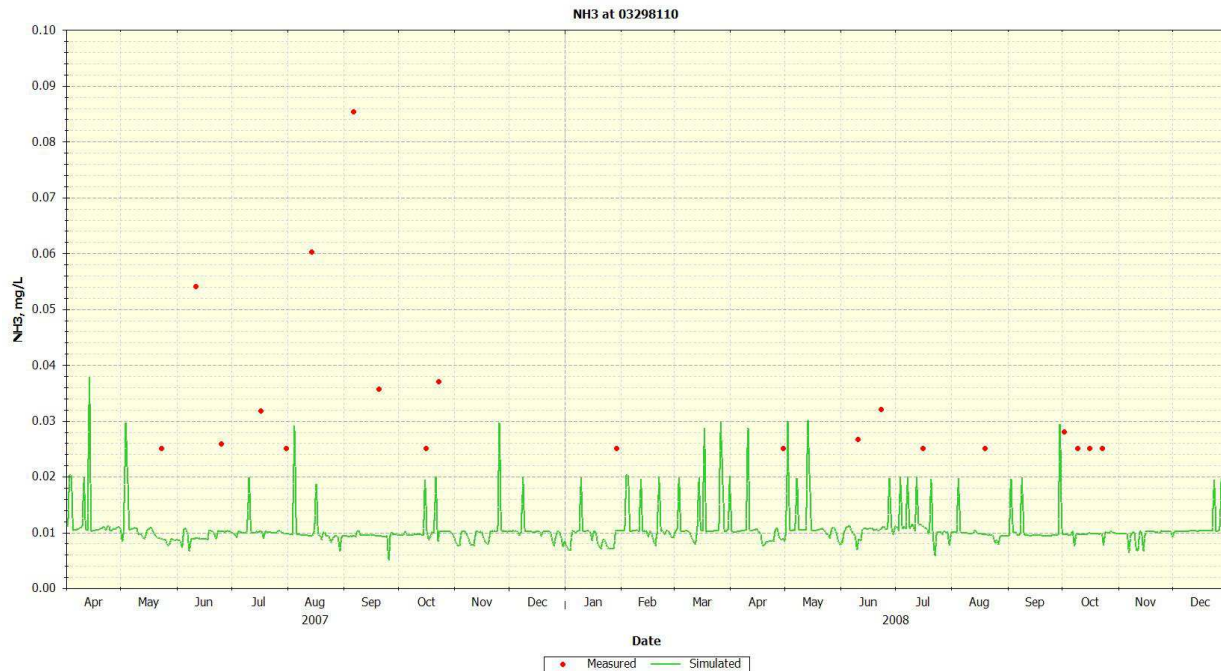
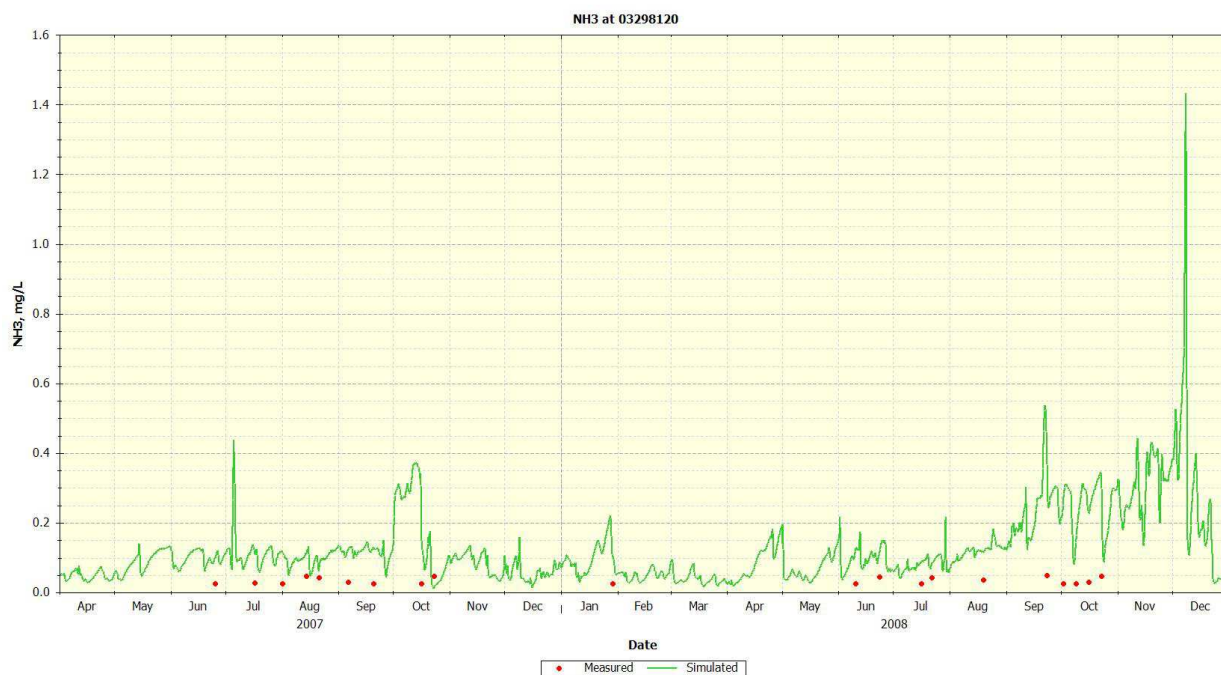
Figure A-112 Modeled vs. Observed NH₃ (mg/L) at 03297880Figure A-113 Modeled vs. Observed NH₃ (mg/L) at 03297900

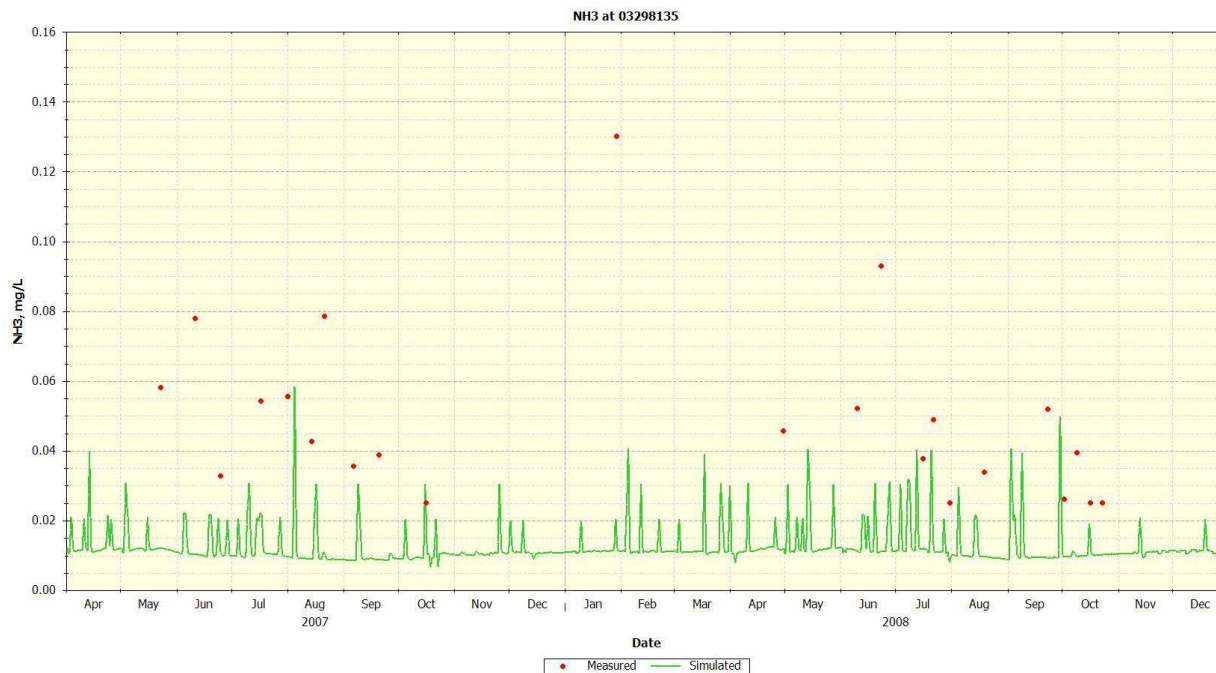
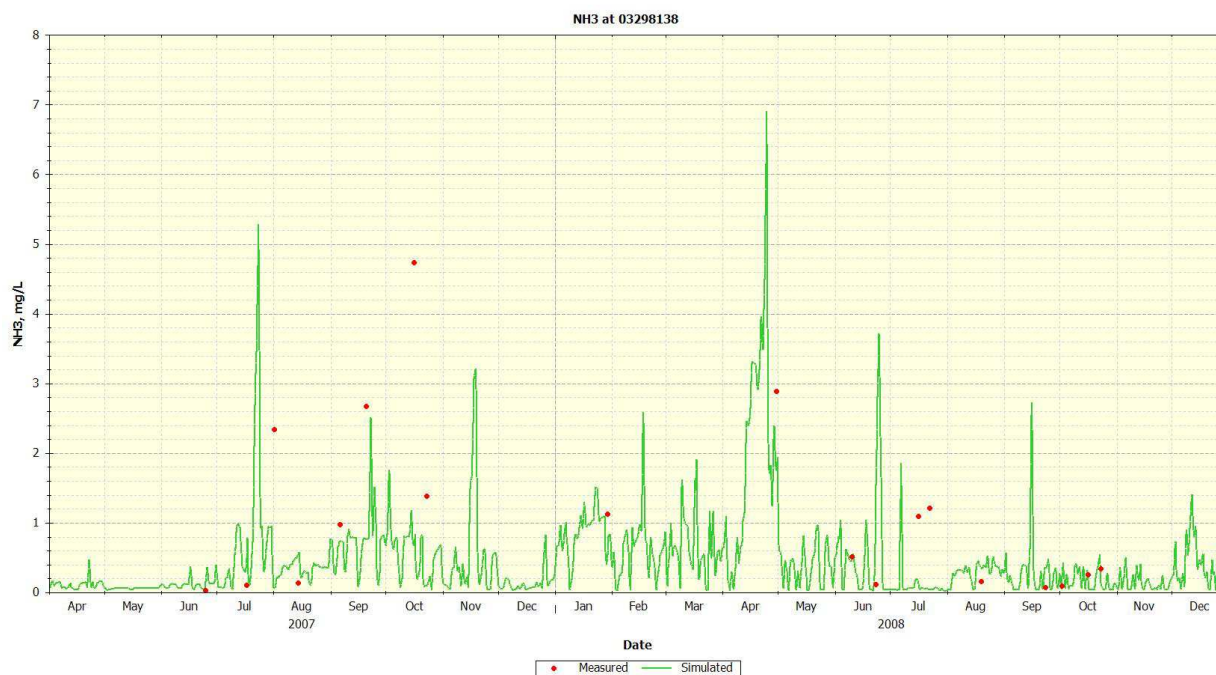
Figure A-114 Modeled vs. Observed NH₃ (mg/L) at 03297930Figure A-115 Modeled vs. Observed NH₃ (mg/L) at 03297950

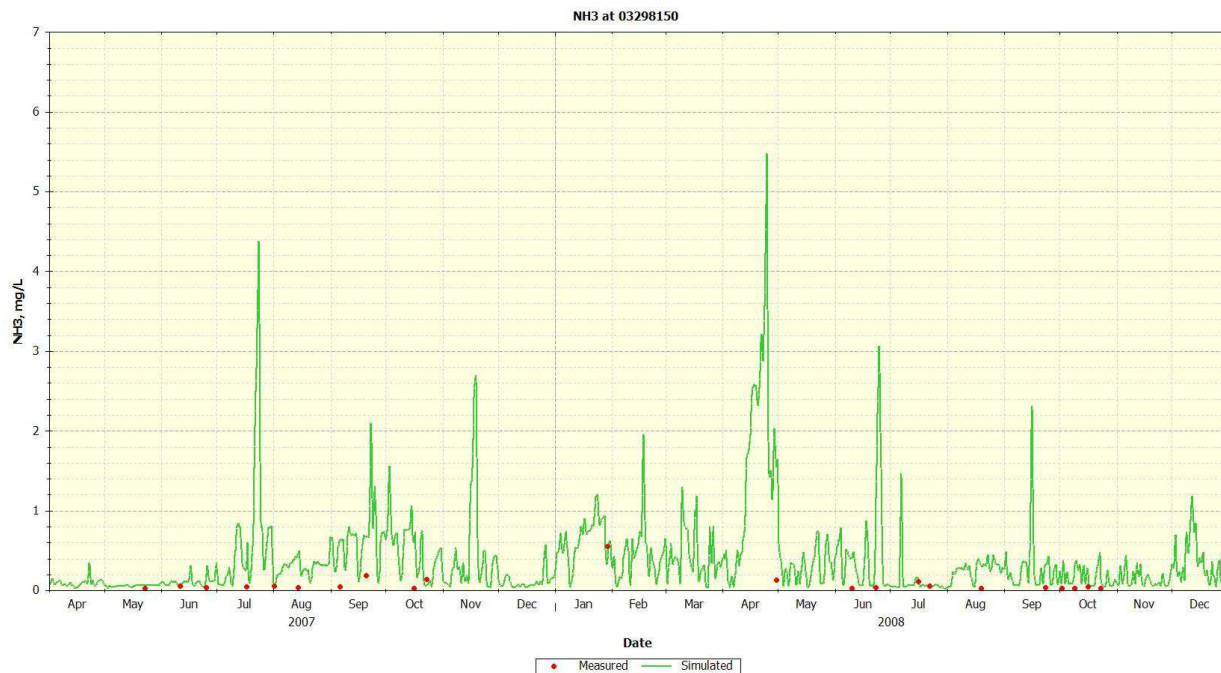
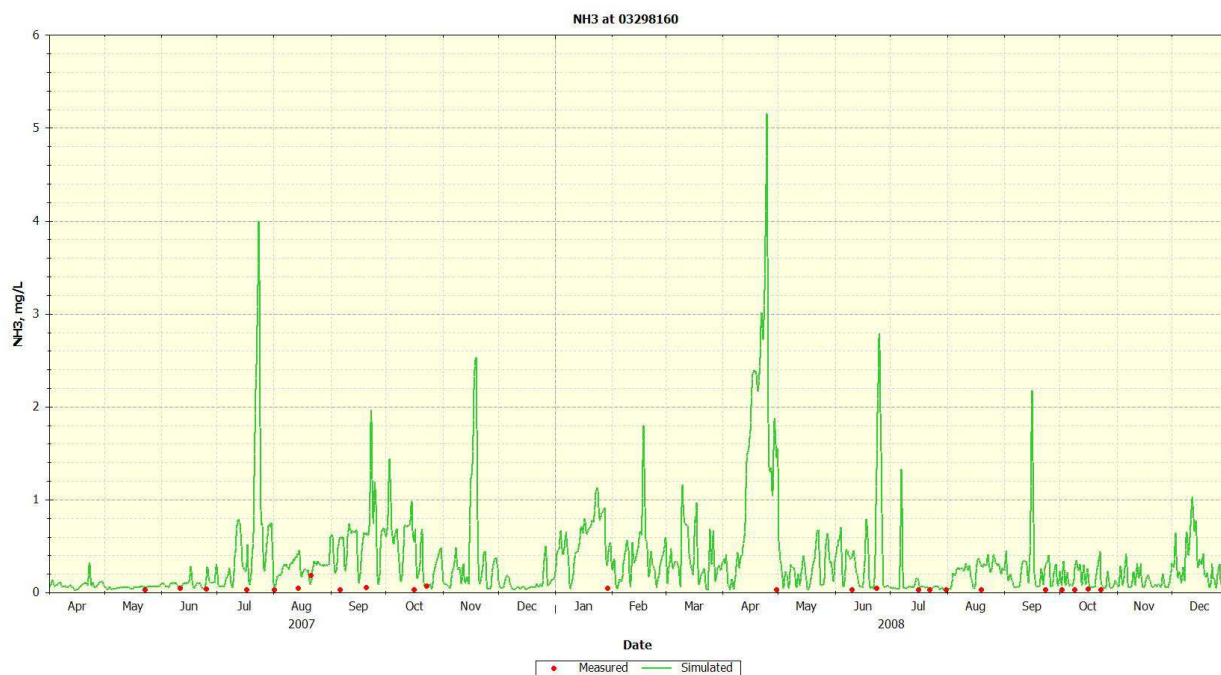
Figure A-116 Modeled vs. Observed NH₃ (mg/L) at 03297975Figure A-117 Modeled vs. Observed NH₃ (mg/L) at 03297980

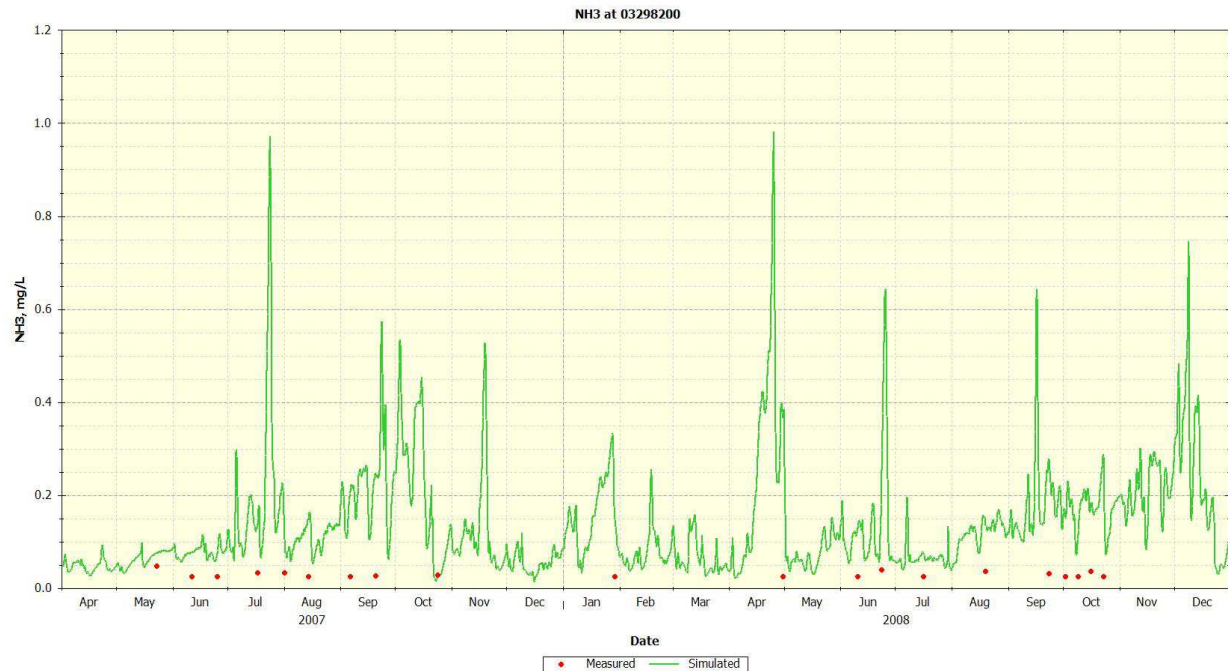
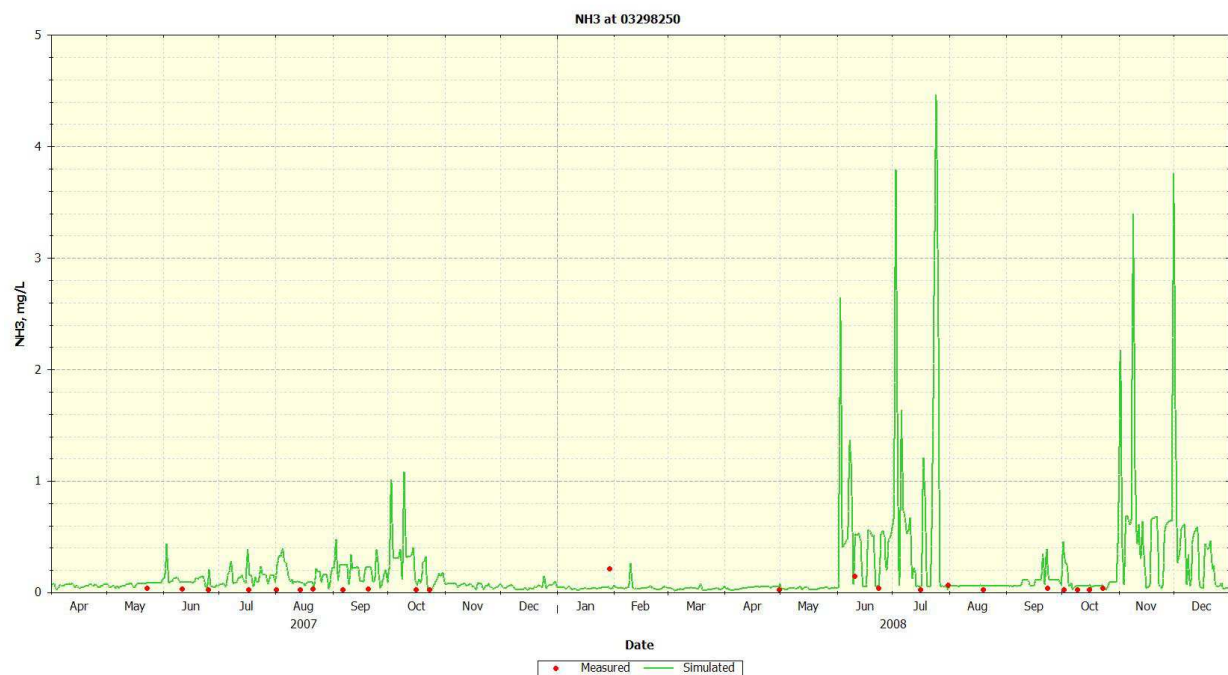
Figure A-118 Modeled vs. Observed NH₃ (mg/L) at 03298000Figure A-119 Modeled vs. Observed NH₃ (mg/L) at 03298005

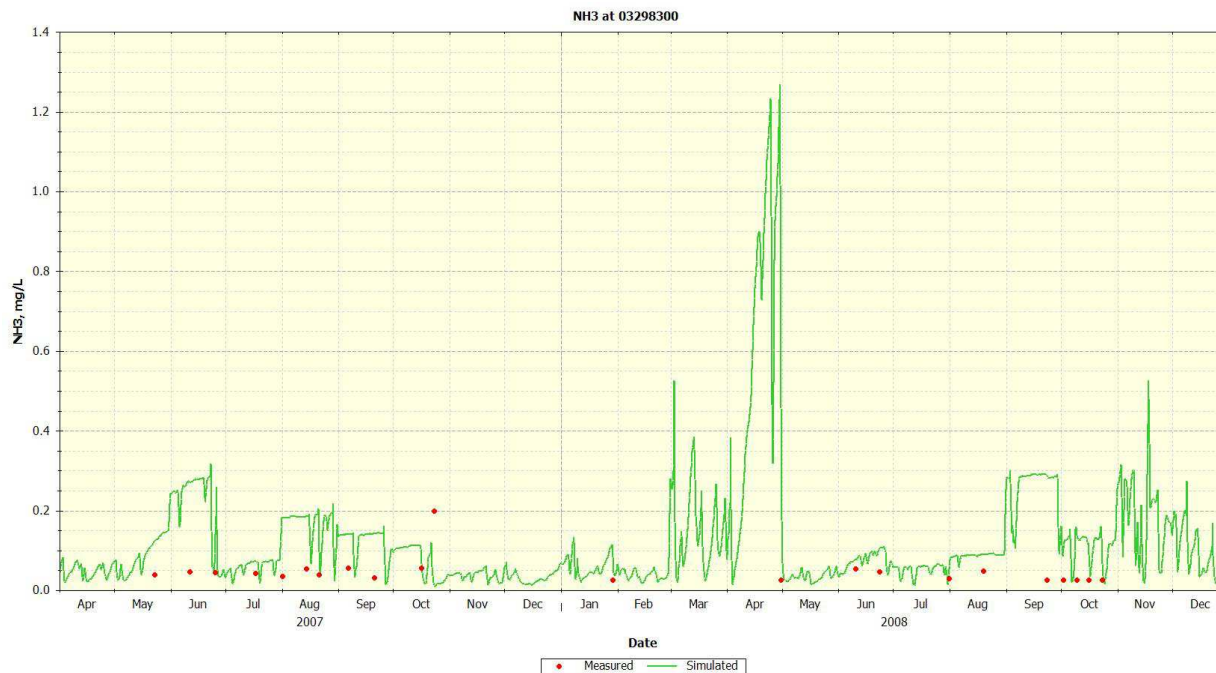
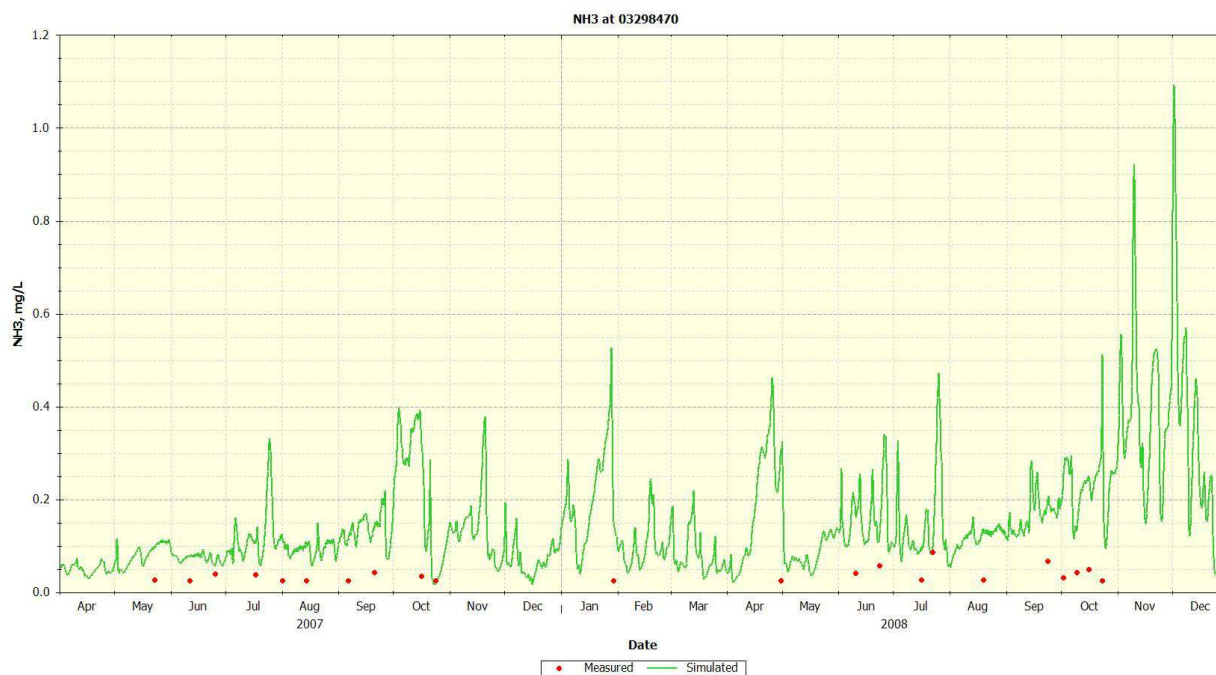
Figure A-120 Modeled vs. Observed NH₃ (mg/L) at 03298020Figure A-121 Modeled vs. Observed NH₃ (mg/L) at 03298100

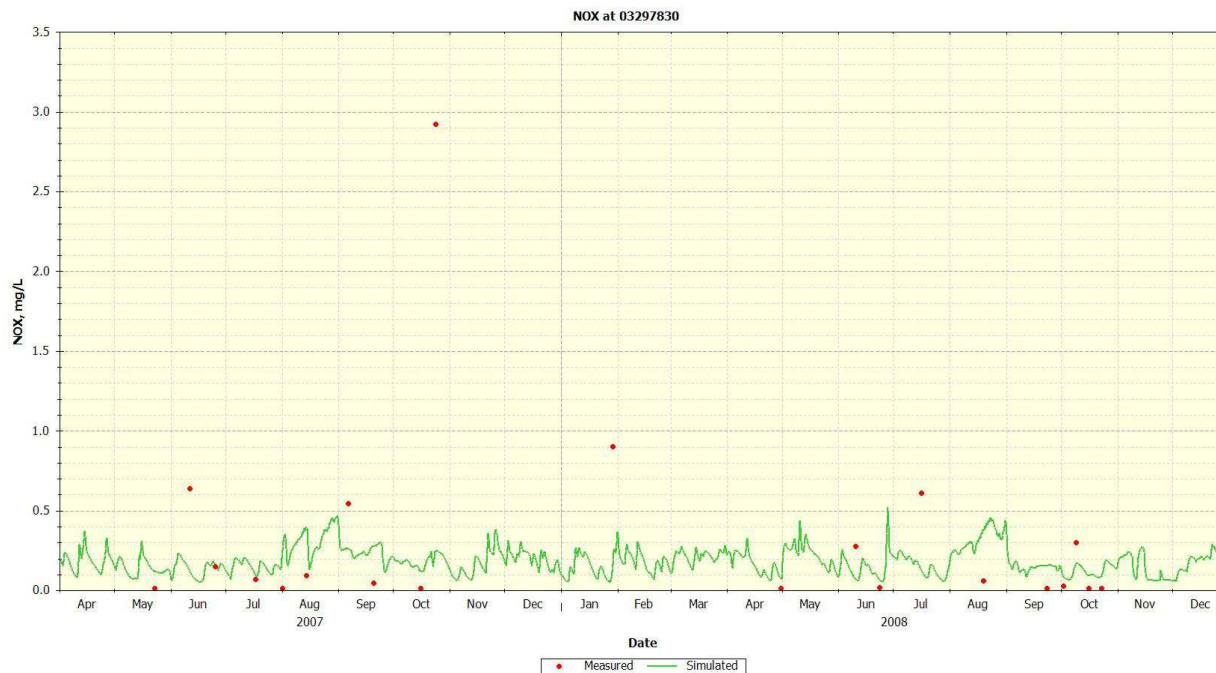
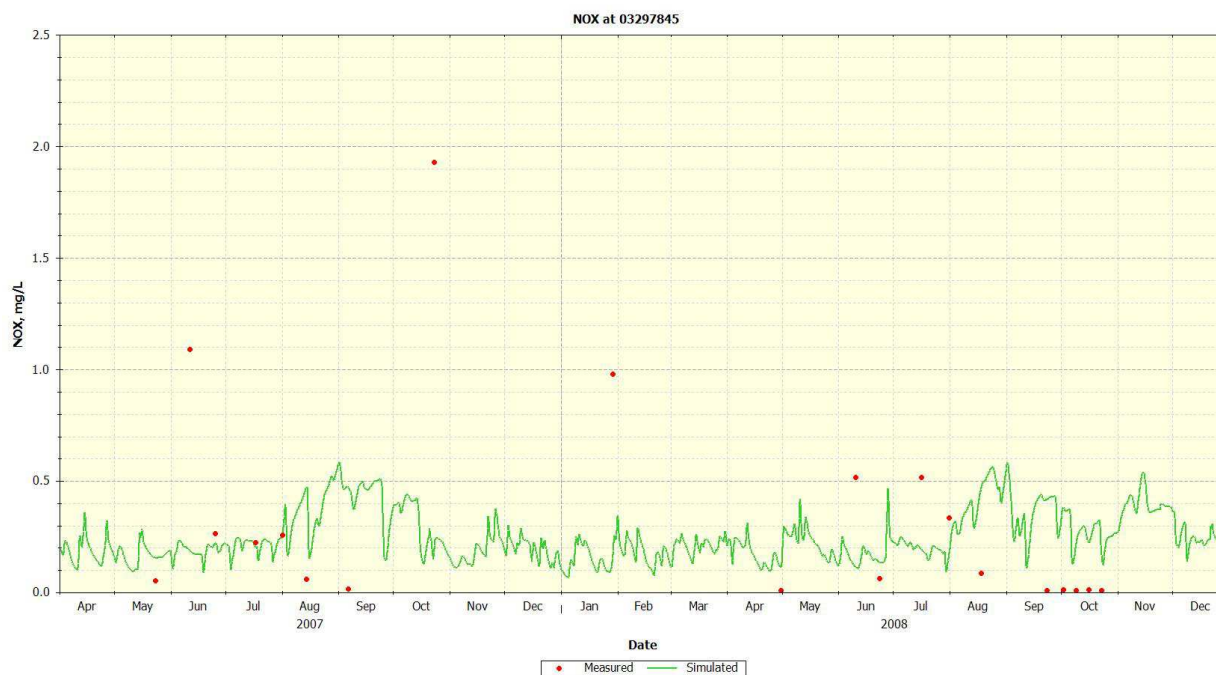
Figure A-122 Modeled vs. Observed NH₃ (mg/L) at 03298110Figure A-123 Modeled vs. Observed NH₃ (mg/L) at 03298120

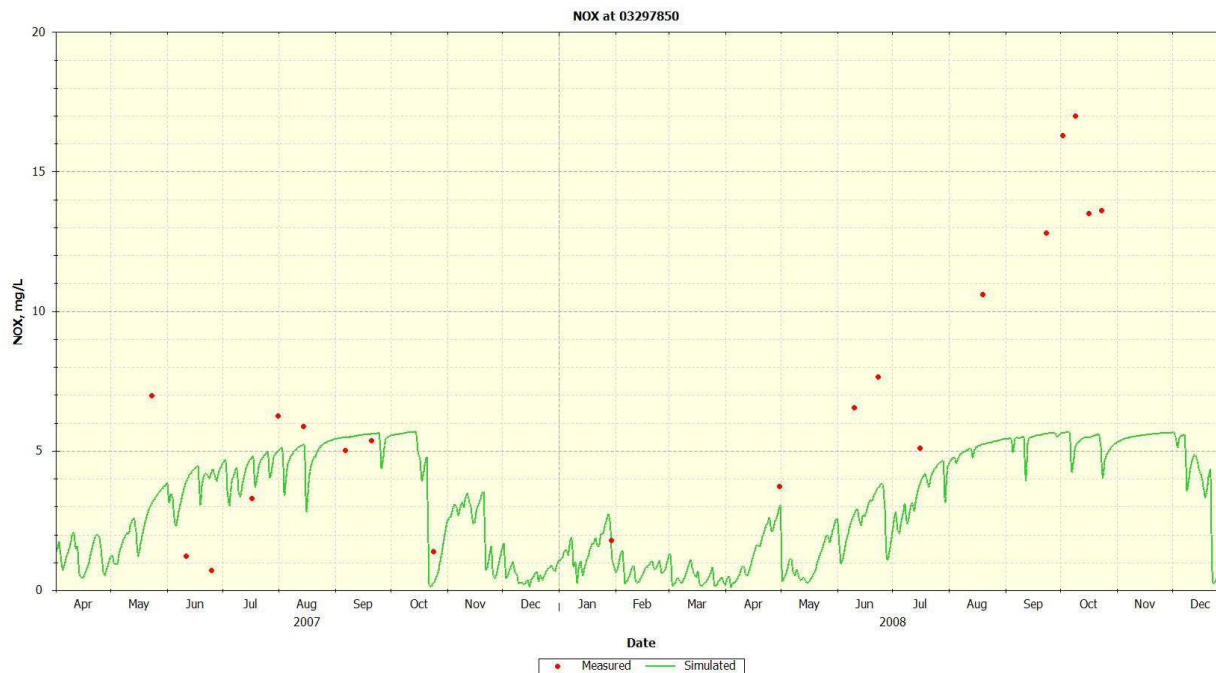
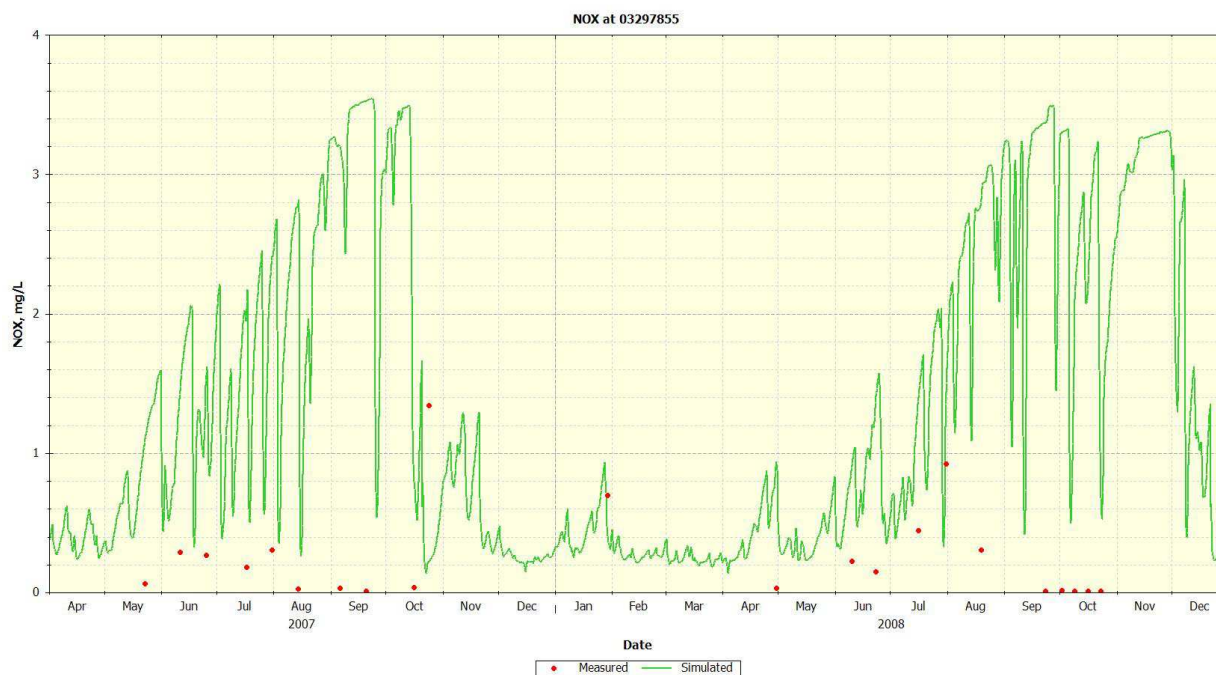
Figure A-124 Modeled vs. Observed NH₃ (mg/L) at 03298135Figure A-125 Modeled vs. Observed NH₃ (mg/L) at 03298138

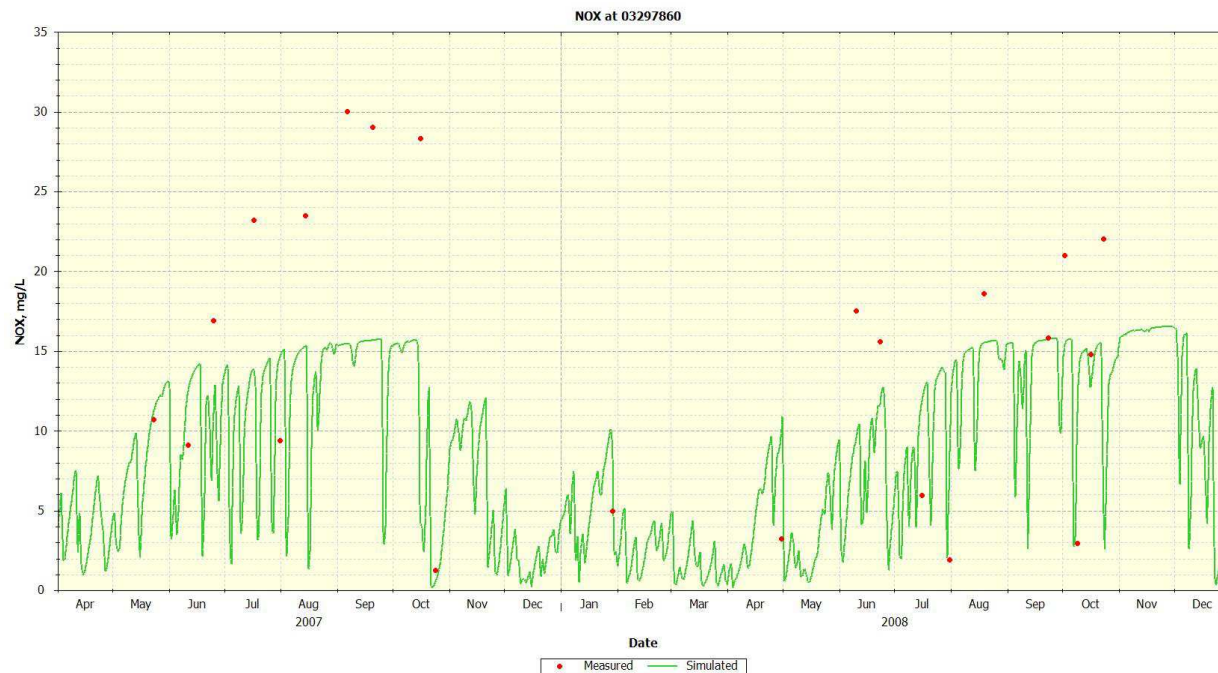
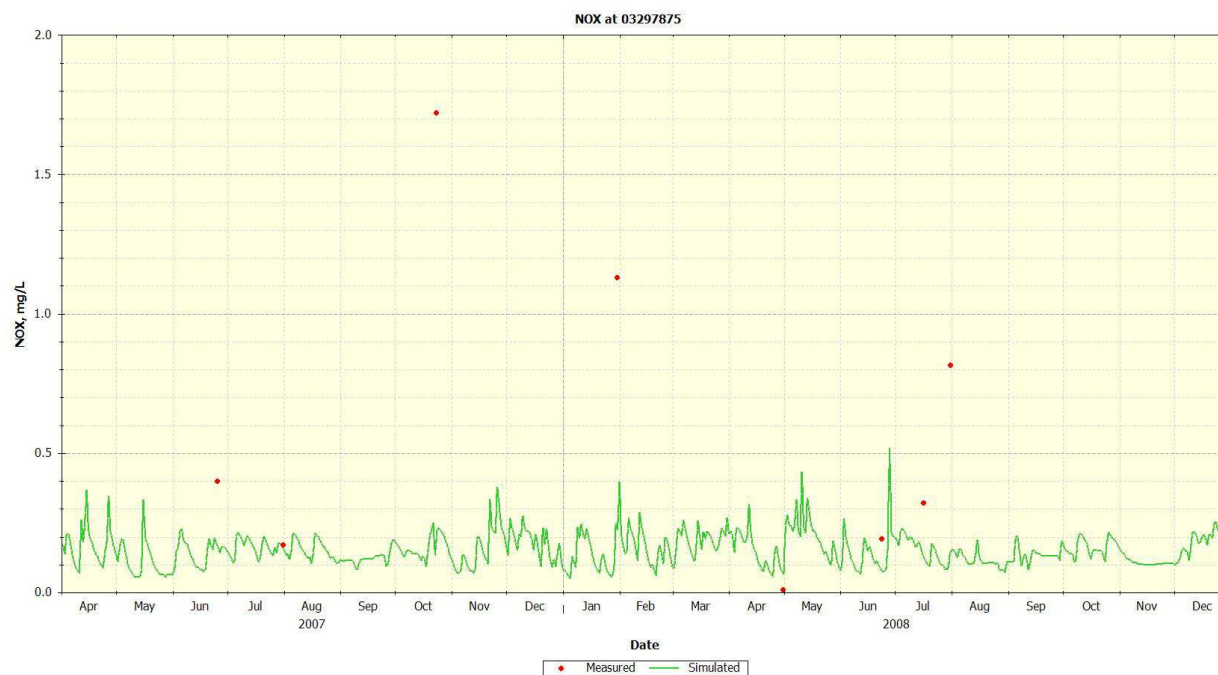
Figure A-126 Modeled vs. Observed NH₃ (mg/L) at 03298150Figure A-127 Modeled vs. Observed NH₃ (mg/L) at 03298160

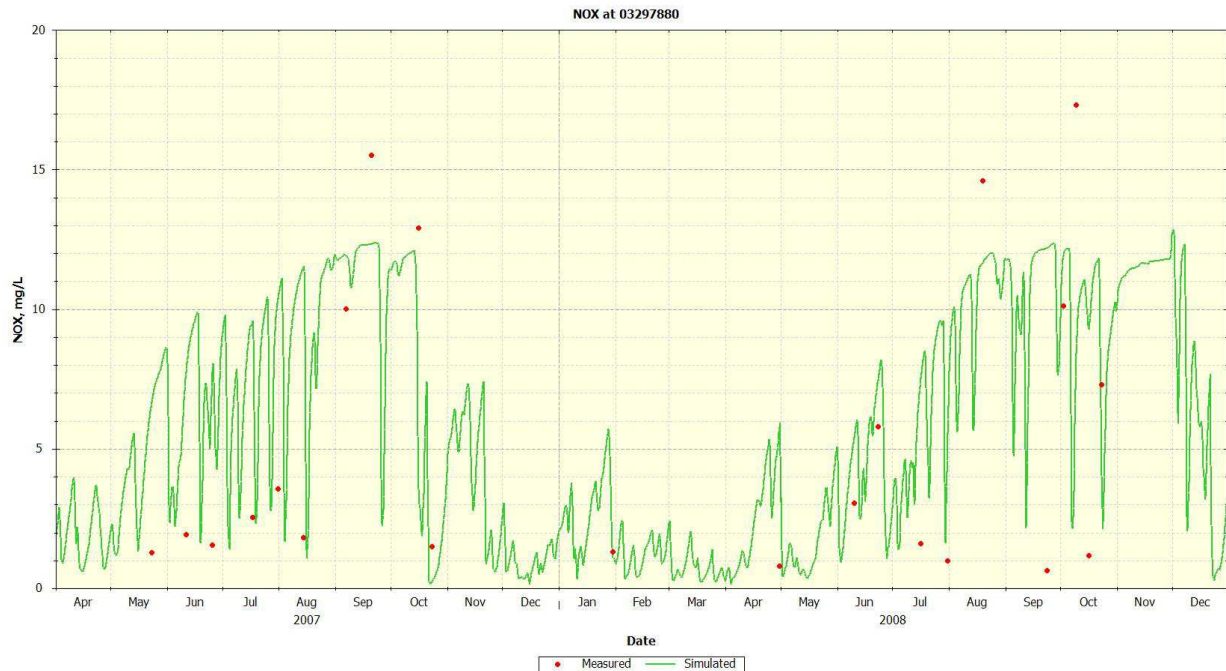
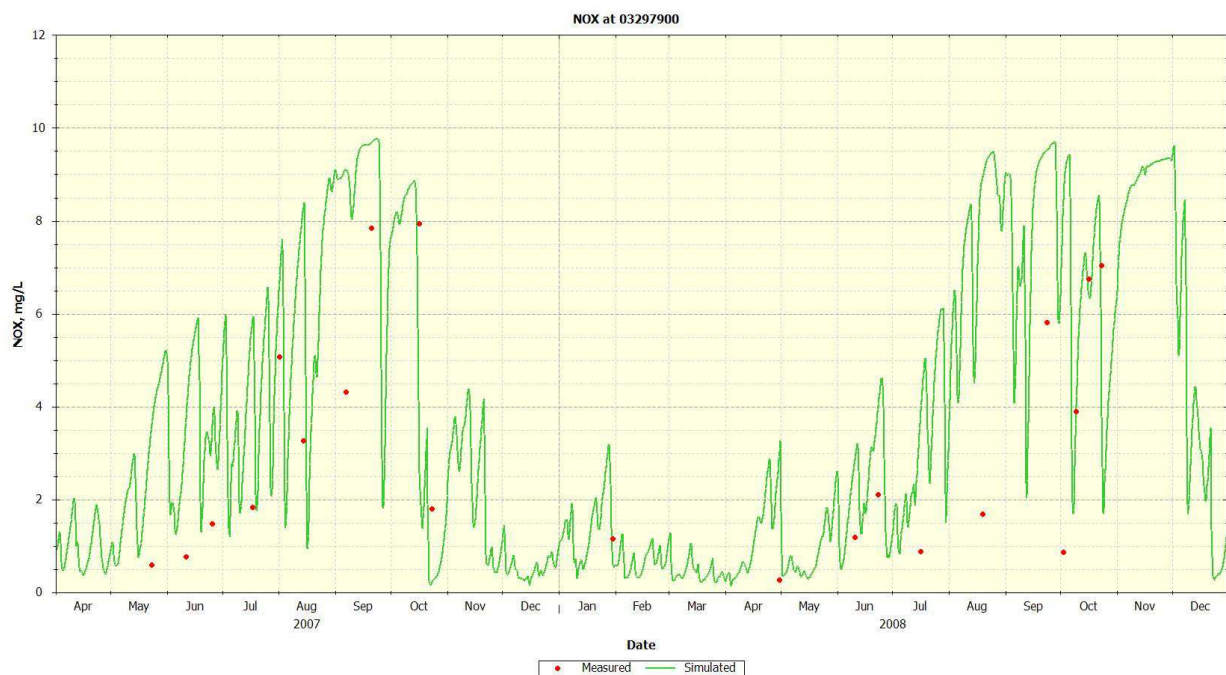
Figure A-128 Modeled vs. Observed NH₃ (mg/L) at 03298200Figure A-129 Modeled vs. Observed NH₃ (mg/L) at 03298250

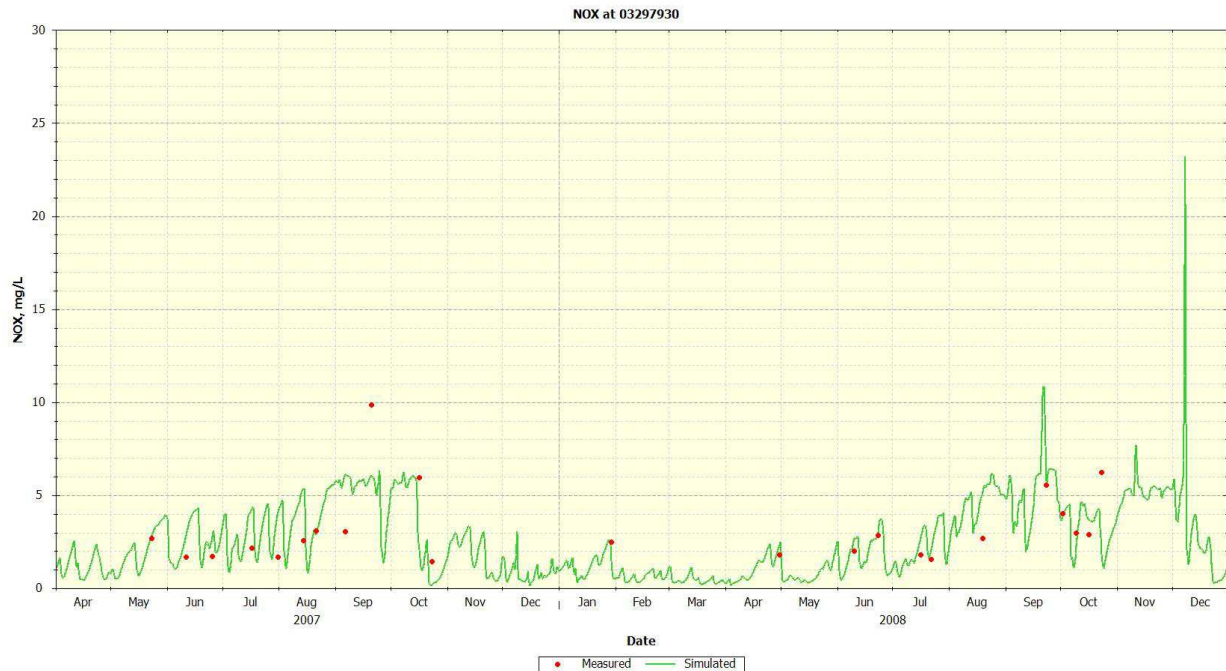
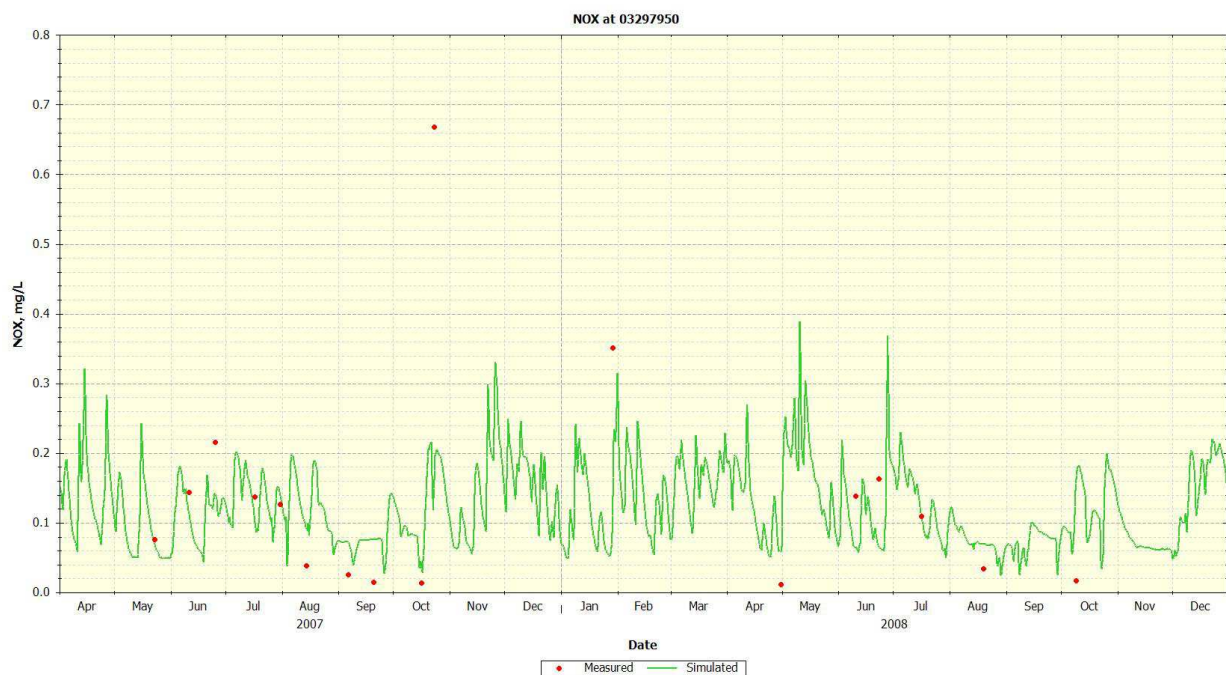
Figure A-130 Modeled vs. Observed NH₃ (mg/L) at 03298300Figure A-131 Modeled vs. Observed NH₃ (mg/L) at 03298470

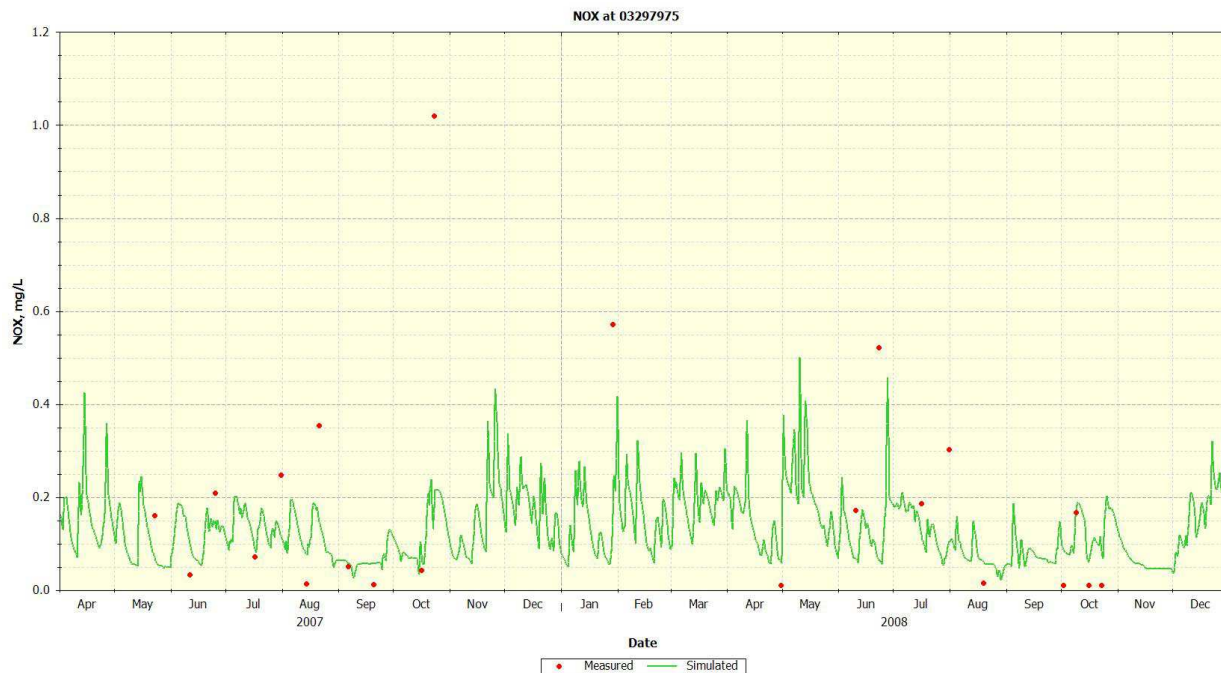
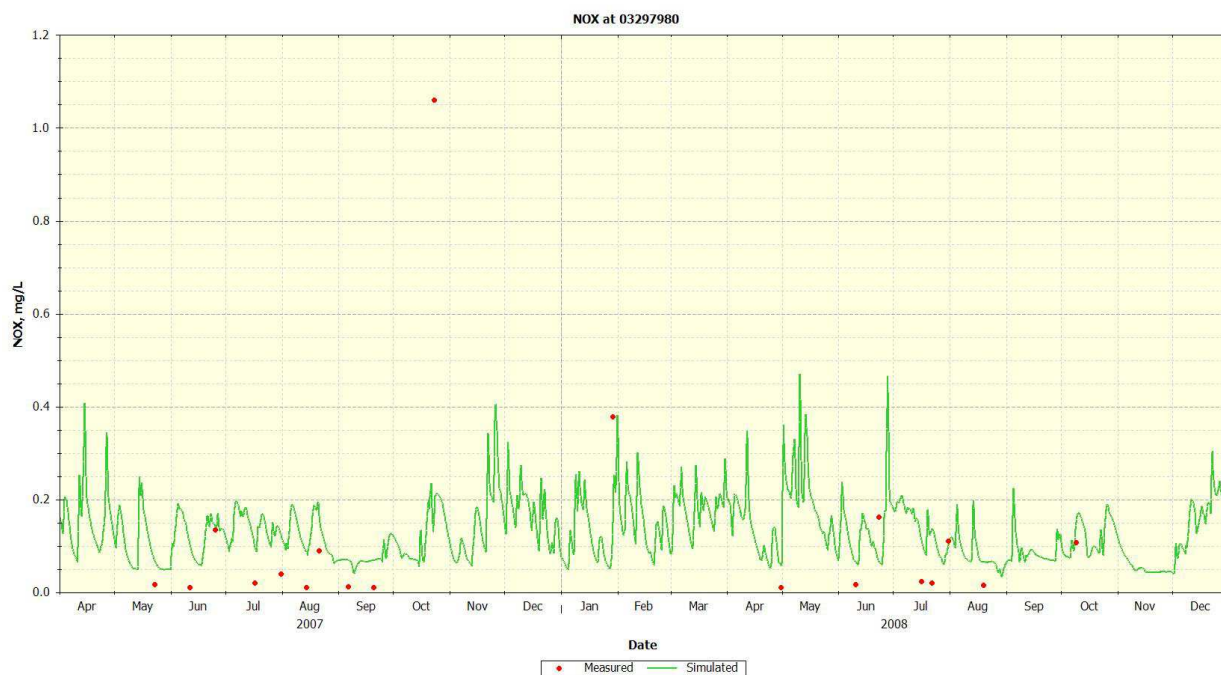
Figure A-132 Modeled vs. Observed NO_x (mg/L) at 03297830Figure A-133 Modeled vs. Observed NO_x (mg/L) at 03297845

Figure A-134 Modeled vs. Observed NO_x (mg/L) at 03297850Figure A-135 Modeled vs. Observed NO_x (mg/L) at 03297855

Figure A-136 Modeled vs. Observed NO_x (mg/L) at 03297860Figure A-137 Modeled vs. Observed NO_x (mg/L) at 03297875

Figure A-138 Modeled vs. Observed NO_x (mg/L) at 03297880Figure A-139 Modeled vs. Observed NO_x (mg/L) at 03297900

Figure A-140 Modeled vs. Observed NO_x (mg/L) at 03297930Figure A-141 Modeled vs. Observed NO_x (mg/L) at 03297950

Figure A-142 Modeled vs. Observed NO_x (mg/L) at 03297975Figure A-143 Modeled vs. Observed NO_x (mg/L) at 03297980

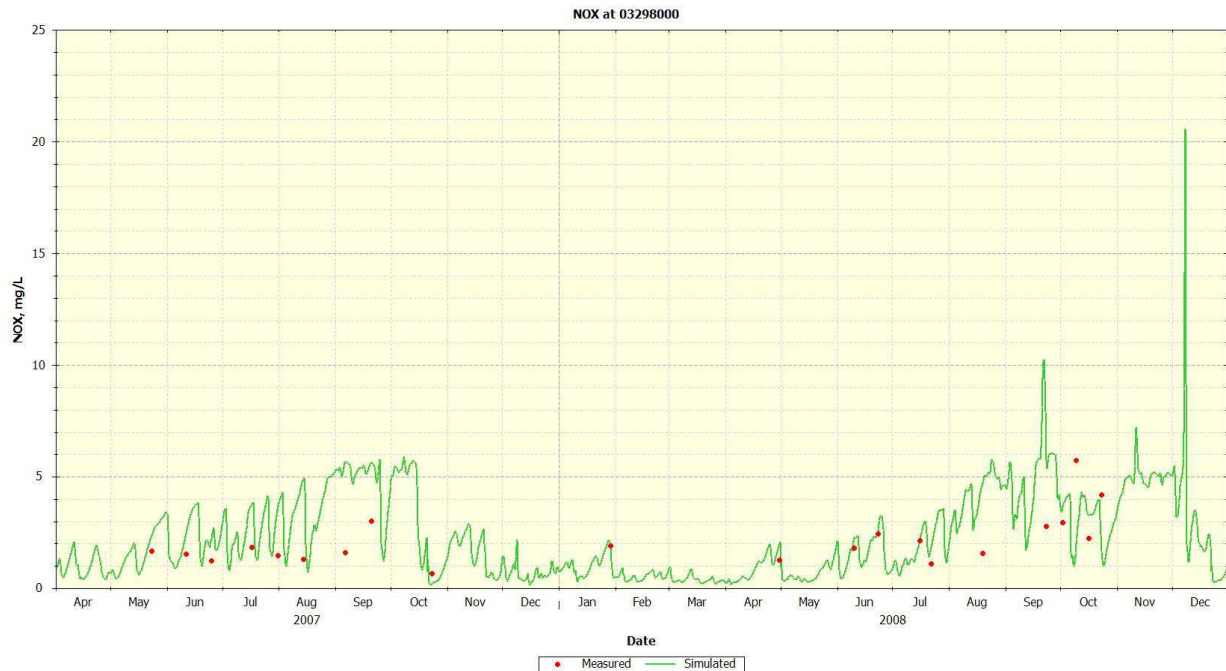


Figure A-144 Modeled vs. Observed NO_x (mg/L) at 03298000

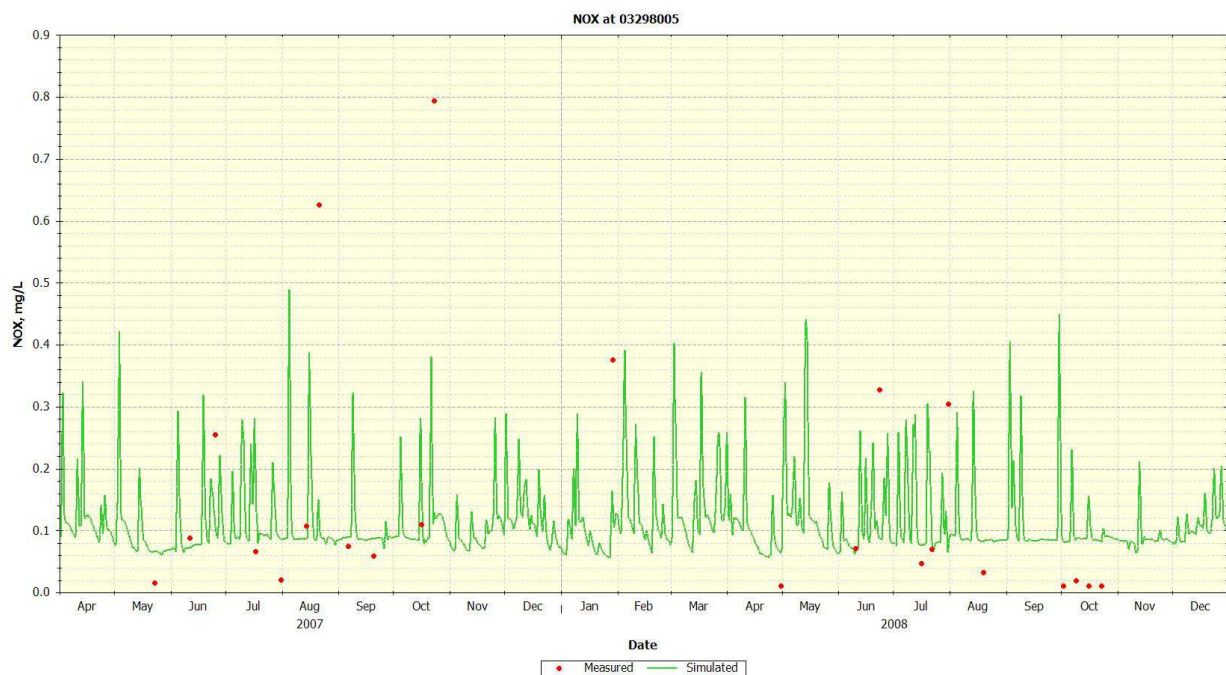
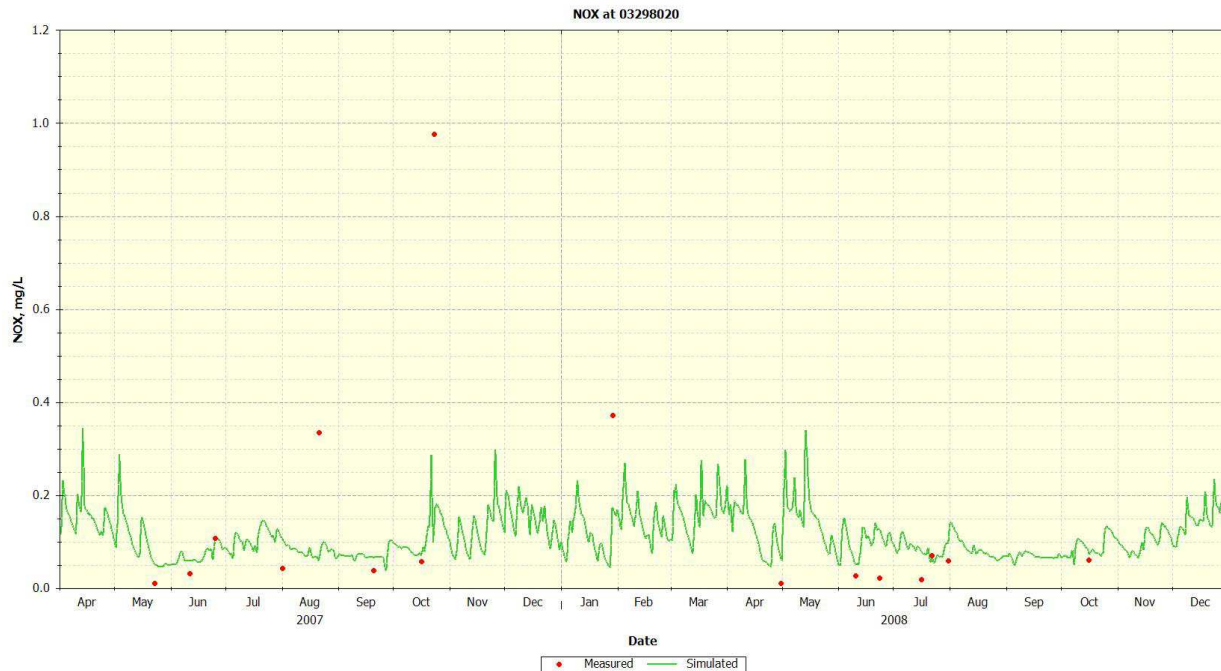
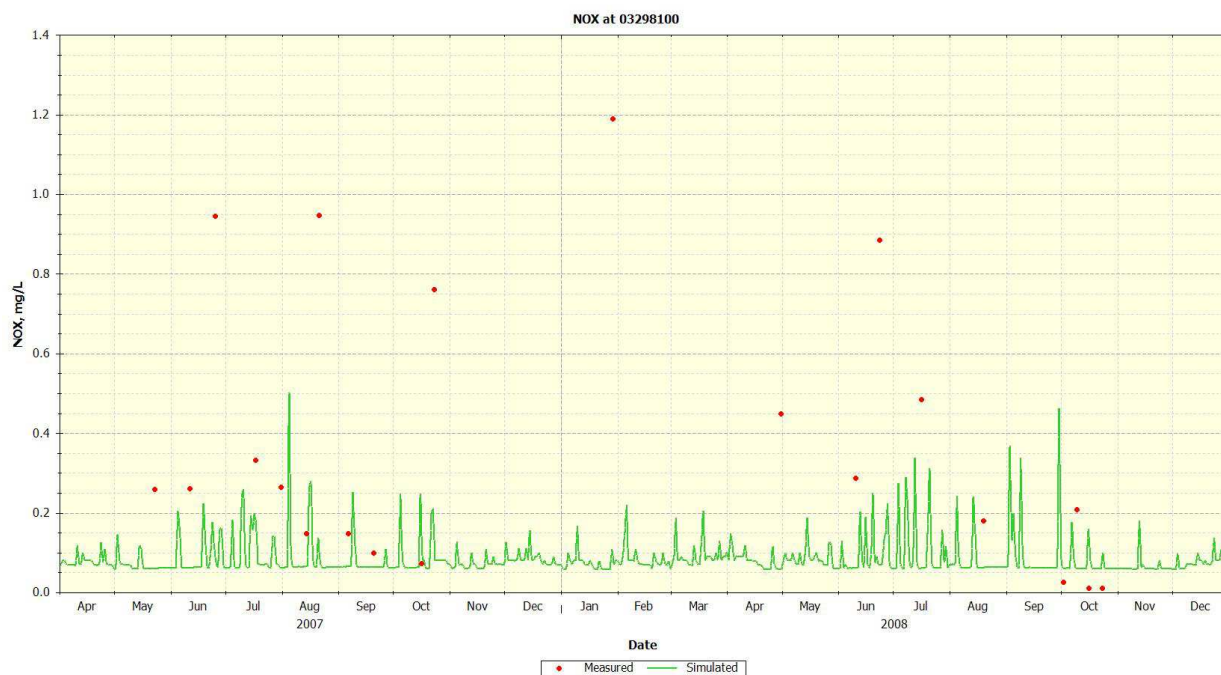
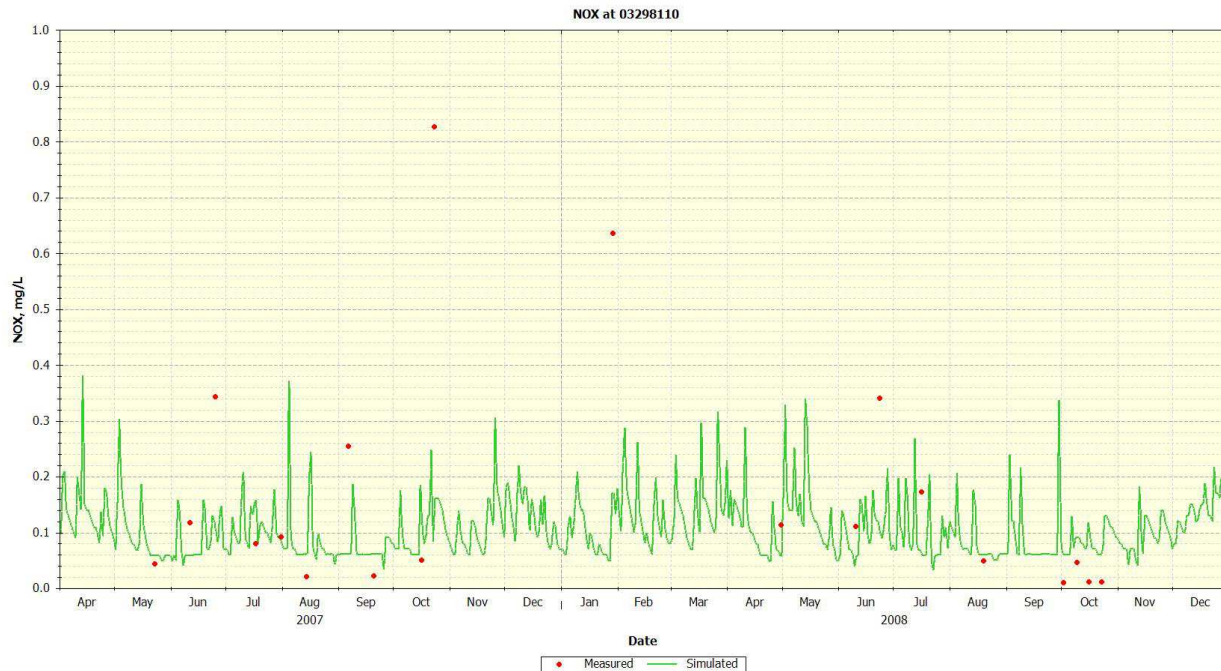
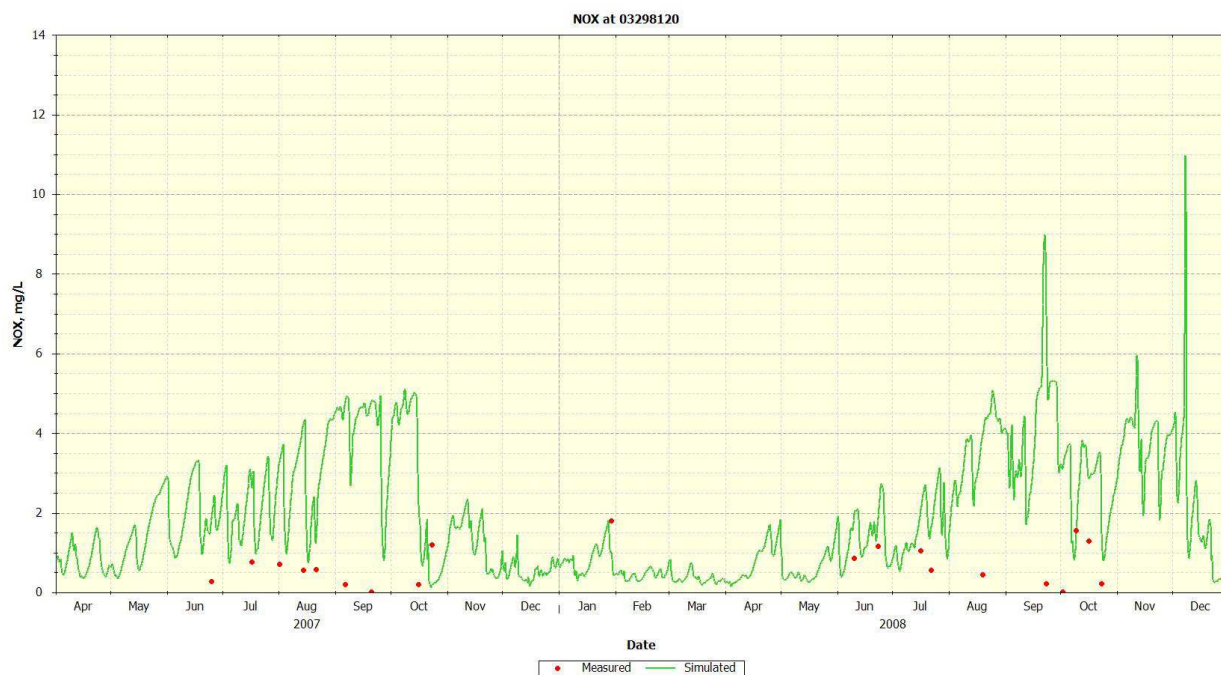


Figure A-145 Modeled vs. Observed NO_x (mg/L) at 03298005

Figure A-146 Modeled vs. Observed NO_x (mg/L) at 03298020Figure A-147 Modeled vs. Observed NO_x (mg/L) at 03298100

Figure A-148 Modeled vs. Observed NO_x (mg/L) at 03298110Figure A-149 Modeled vs. Observed NO_x (mg/L) at 03298120

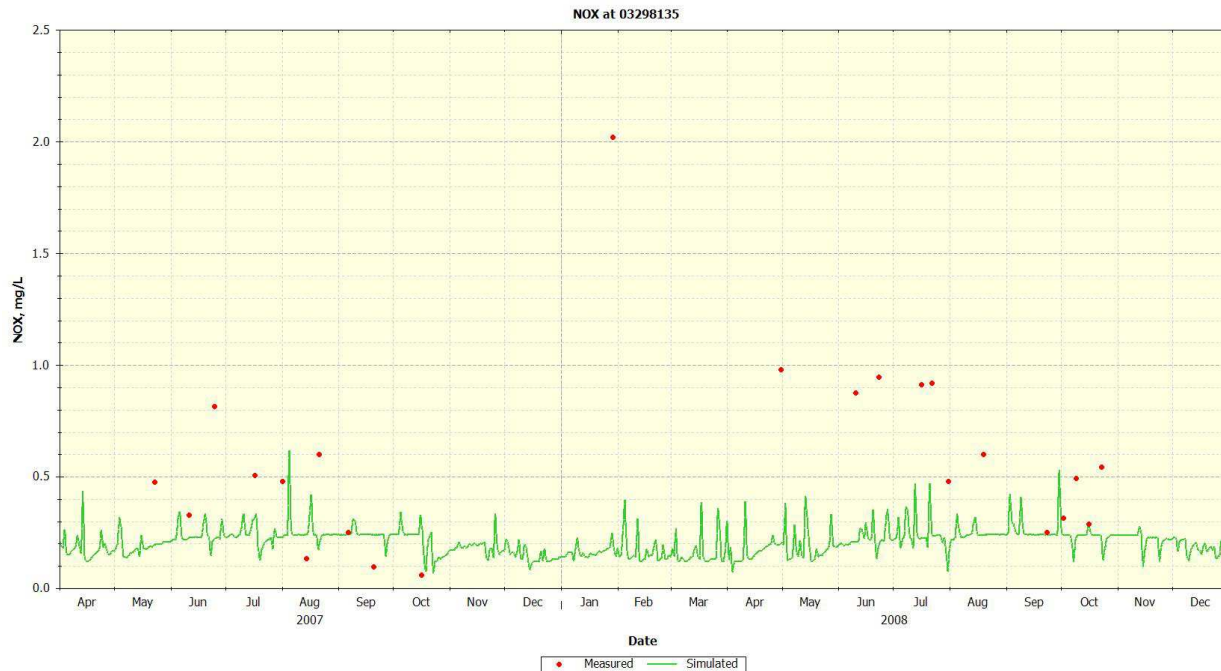


Figure A-150 Modeled vs. Observed NO_x (mg/L) at 03298135

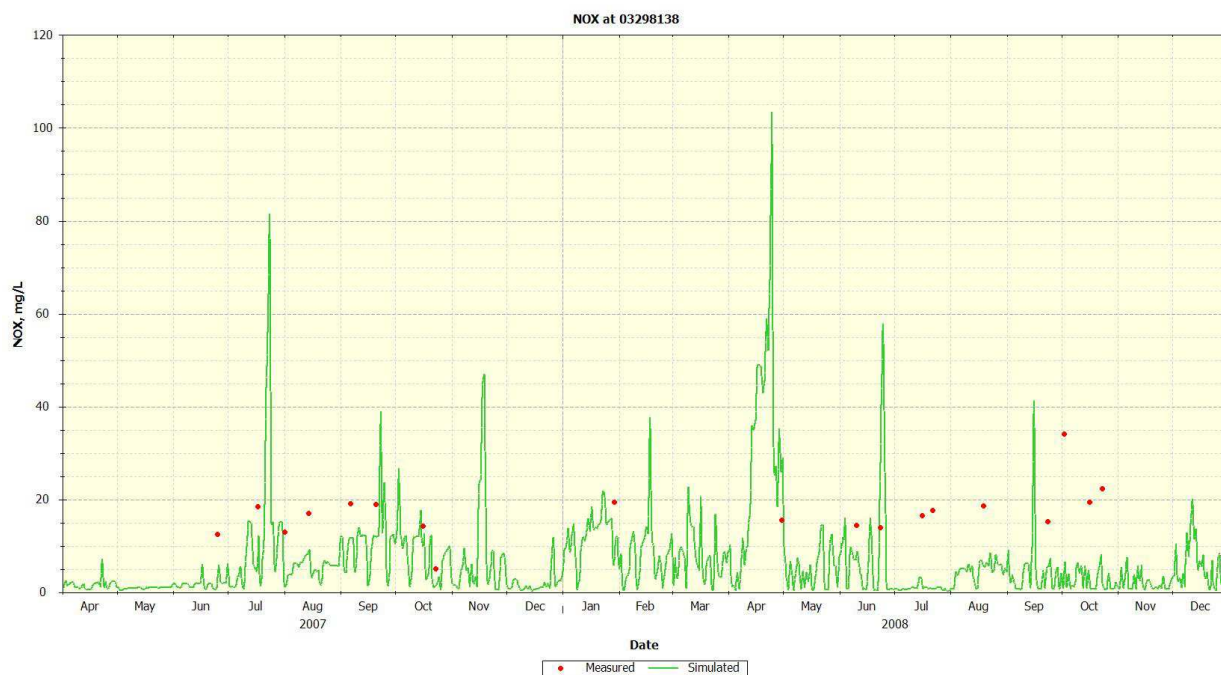
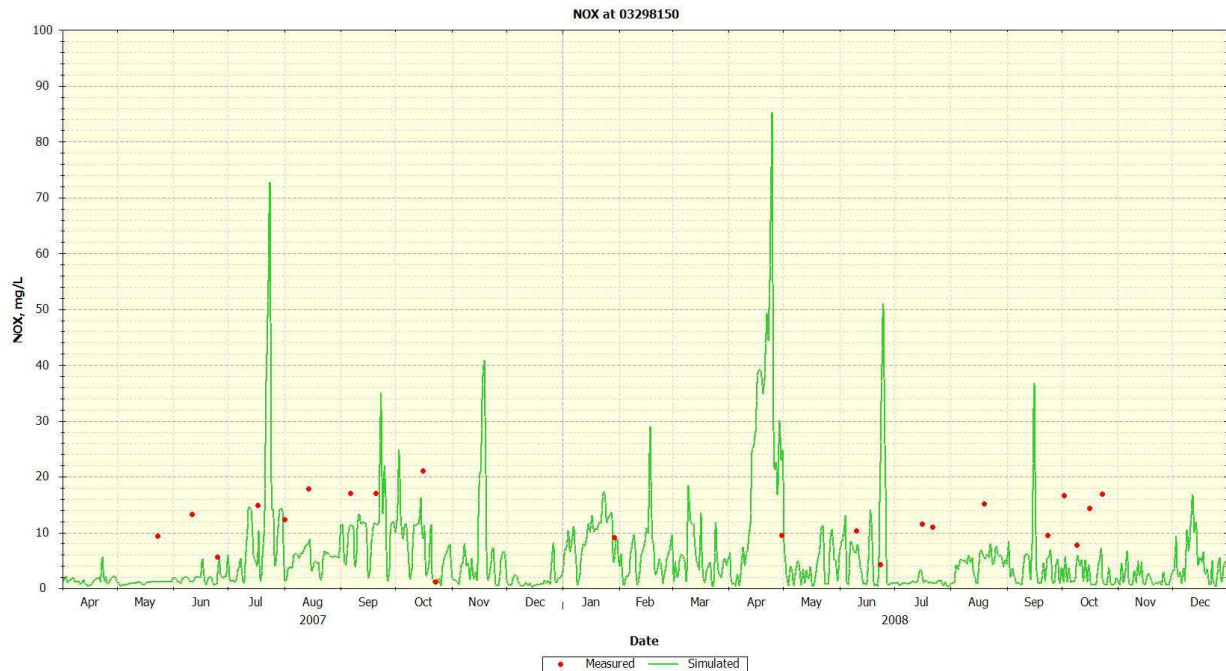
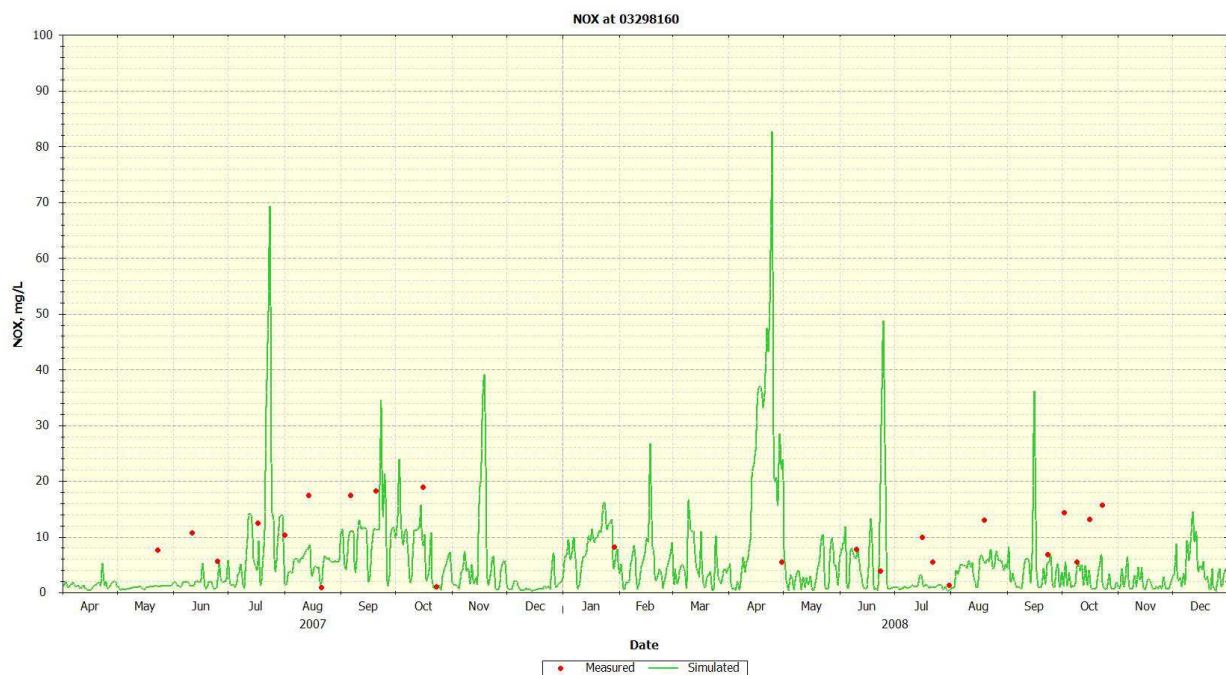
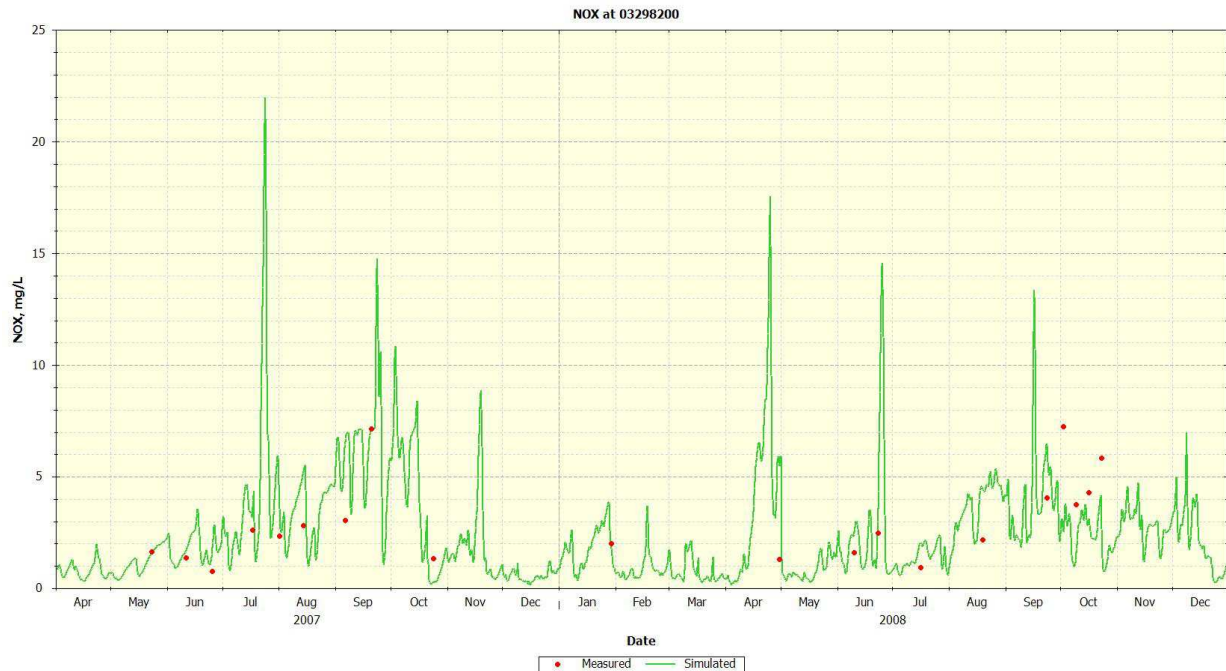
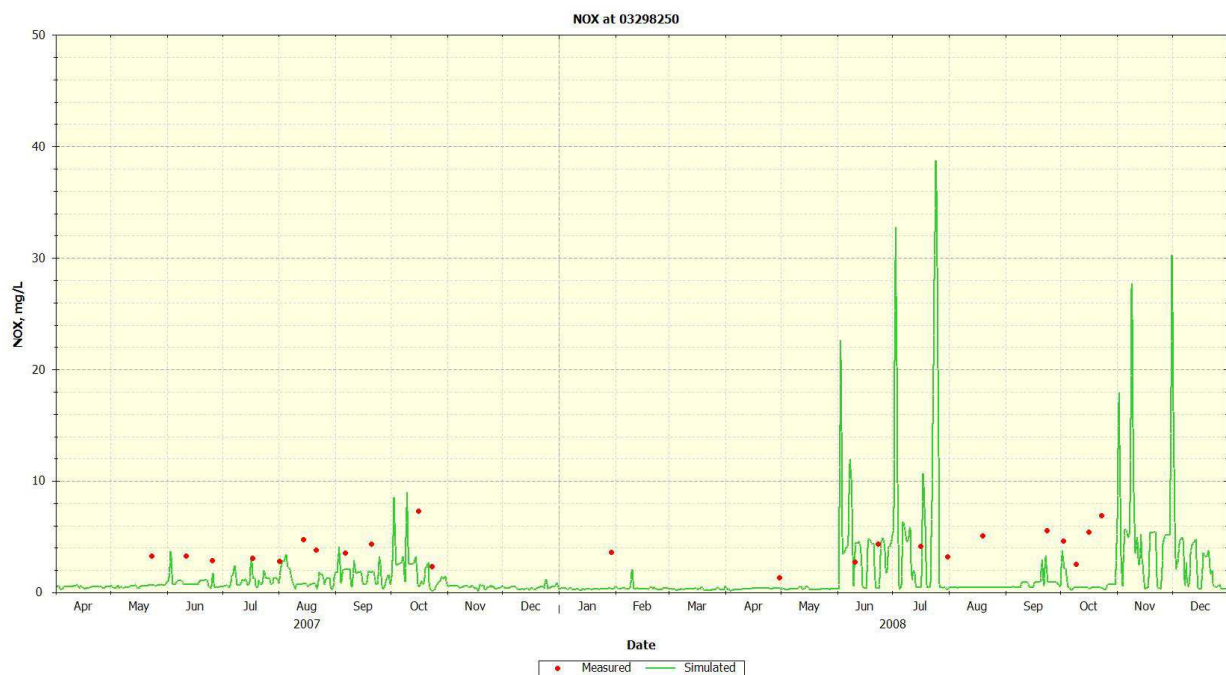
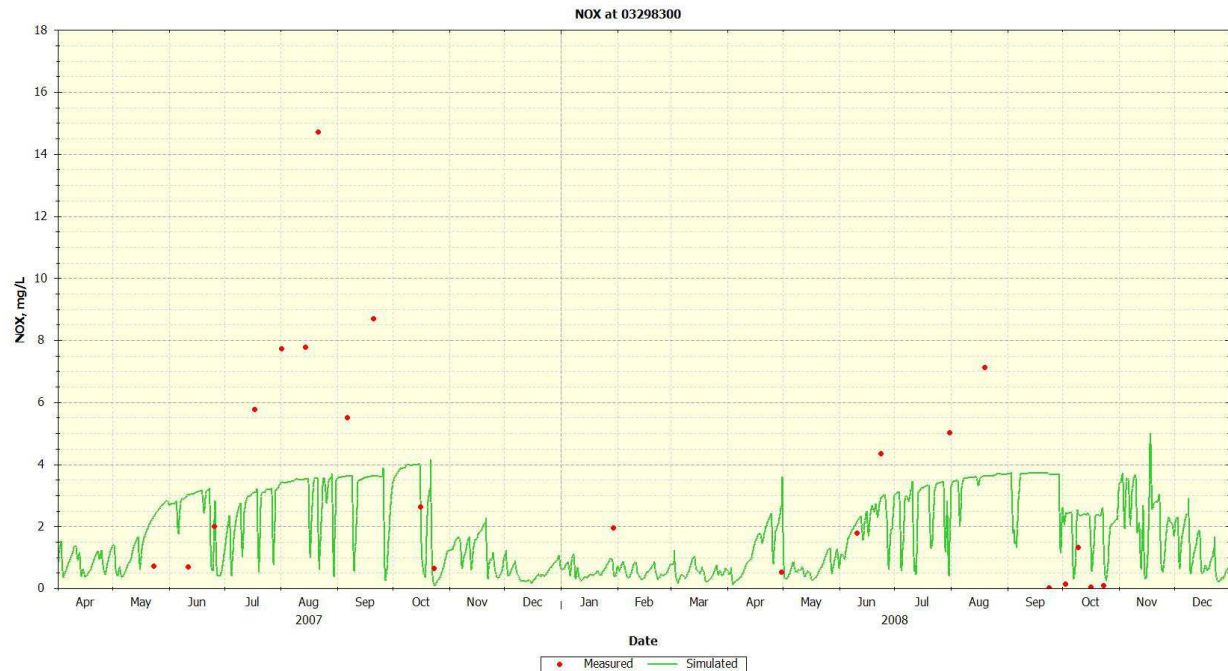
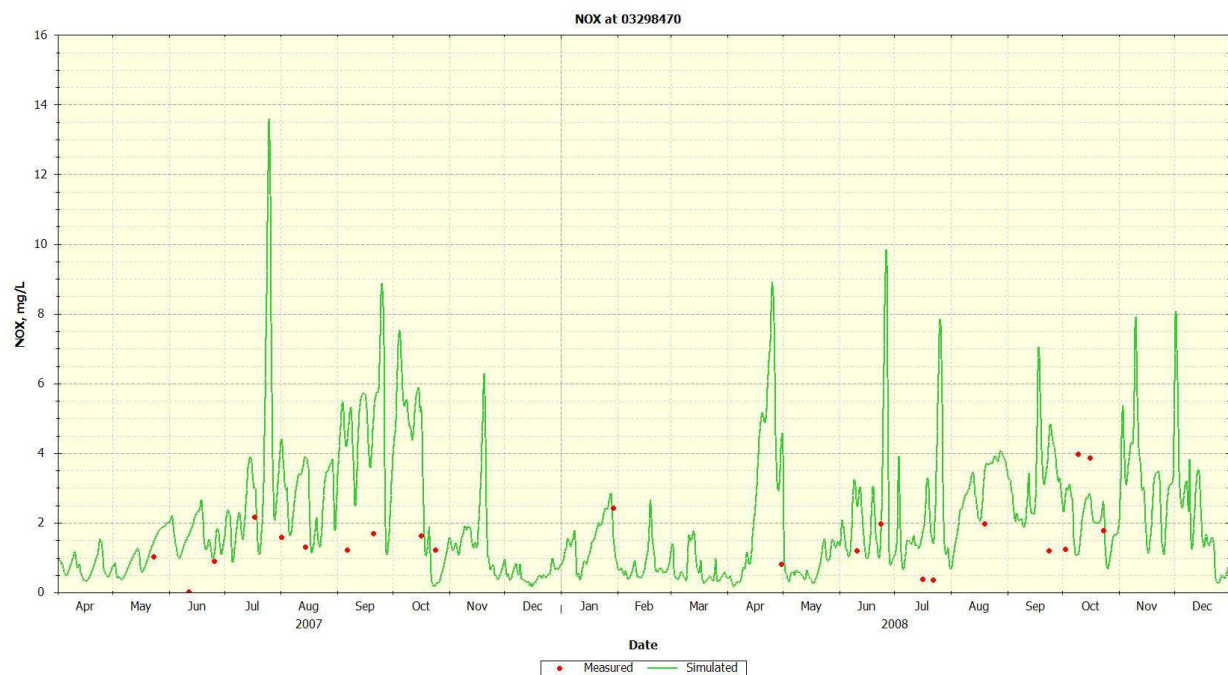


Figure A-151 Modeled vs. Observed NO_x (mg/L) at 03298138

Figure A-152 Modeled vs. Observed NO_x (mg/L) at 03298150Figure A-153 Modeled vs. Observed NO_x (mg/L) at 03298160

Figure A-154 Modeled vs. Observed NO_x (mg/L) at 03298200Figure A-155 Modeled vs. Observed NO_x (mg/L) at 03298250

Figure A-156 Modeled vs. Observed NO_x (mg/L) at 03298300Figure A-157 Modeled vs. Observed NO_x (mg/L) at 03298470

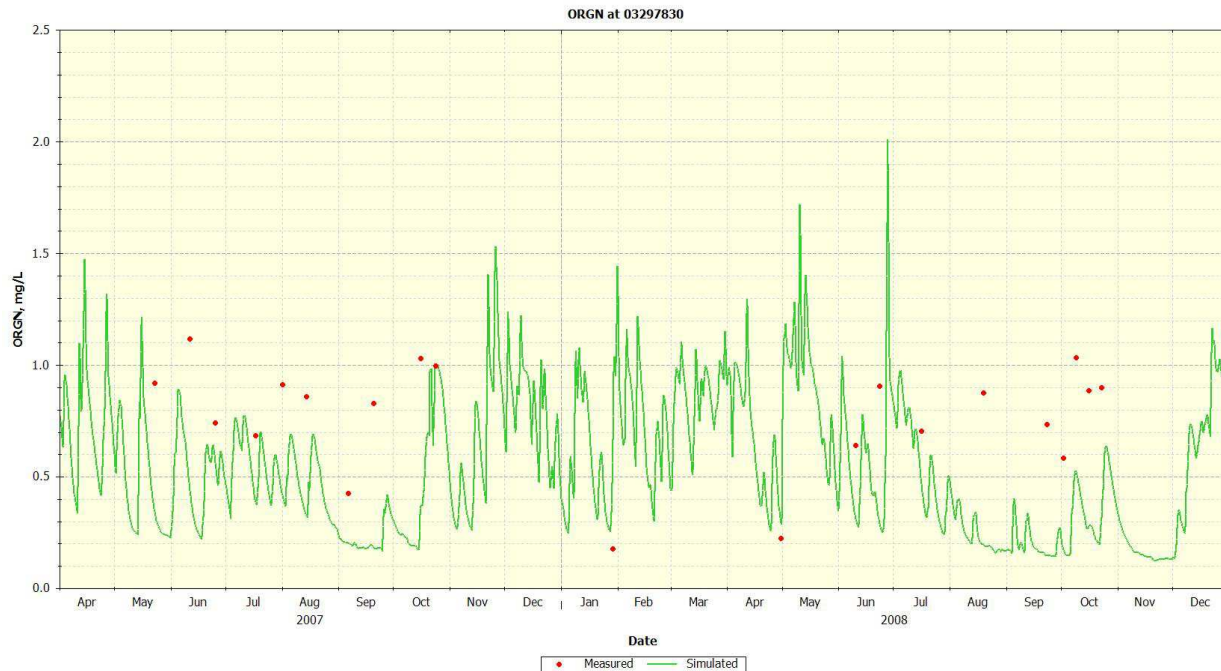


Figure A-158 Modeled vs. Observed ORGN (mg/L) at 03297830

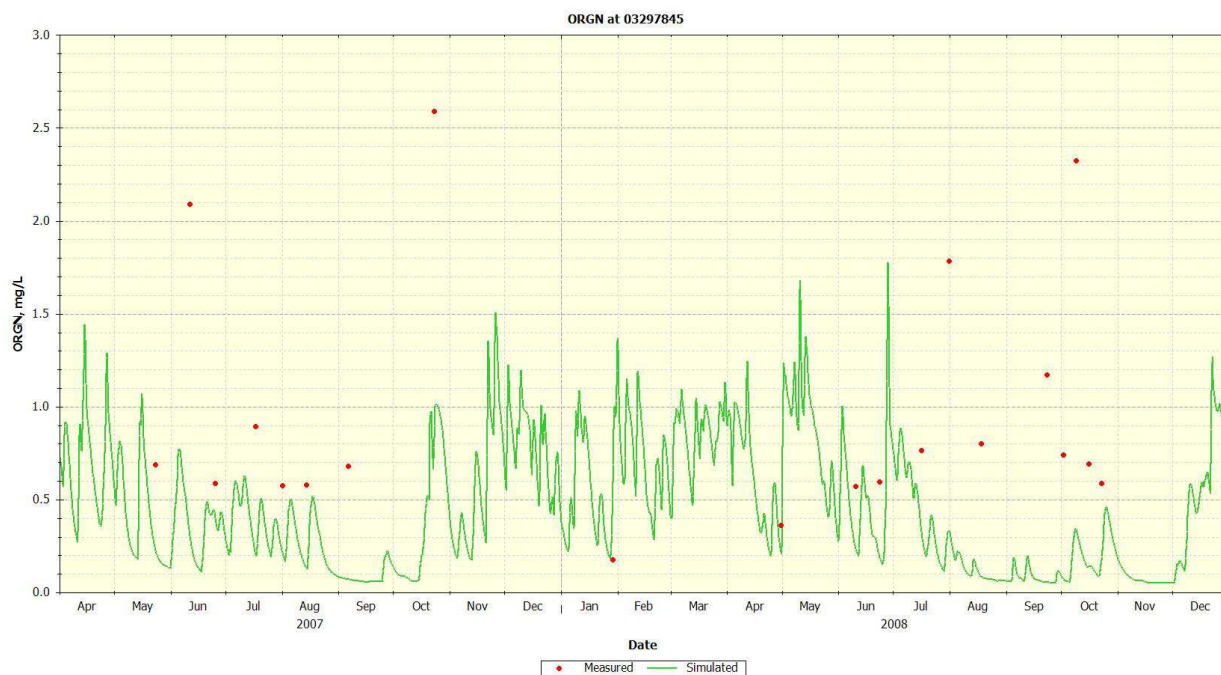


Figure A-159 Modeled vs. Observed ORGN (mg/L) at 03297845

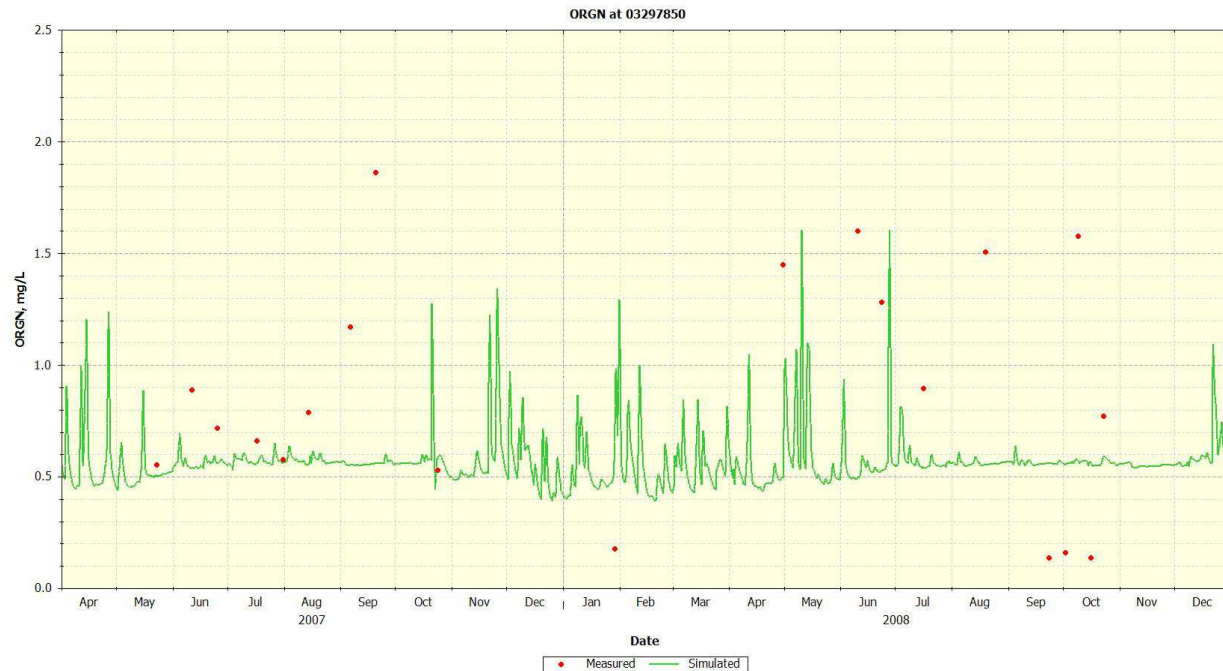


Figure A-160 Modeled vs. Observed ORGN (mg/L) at 03297850

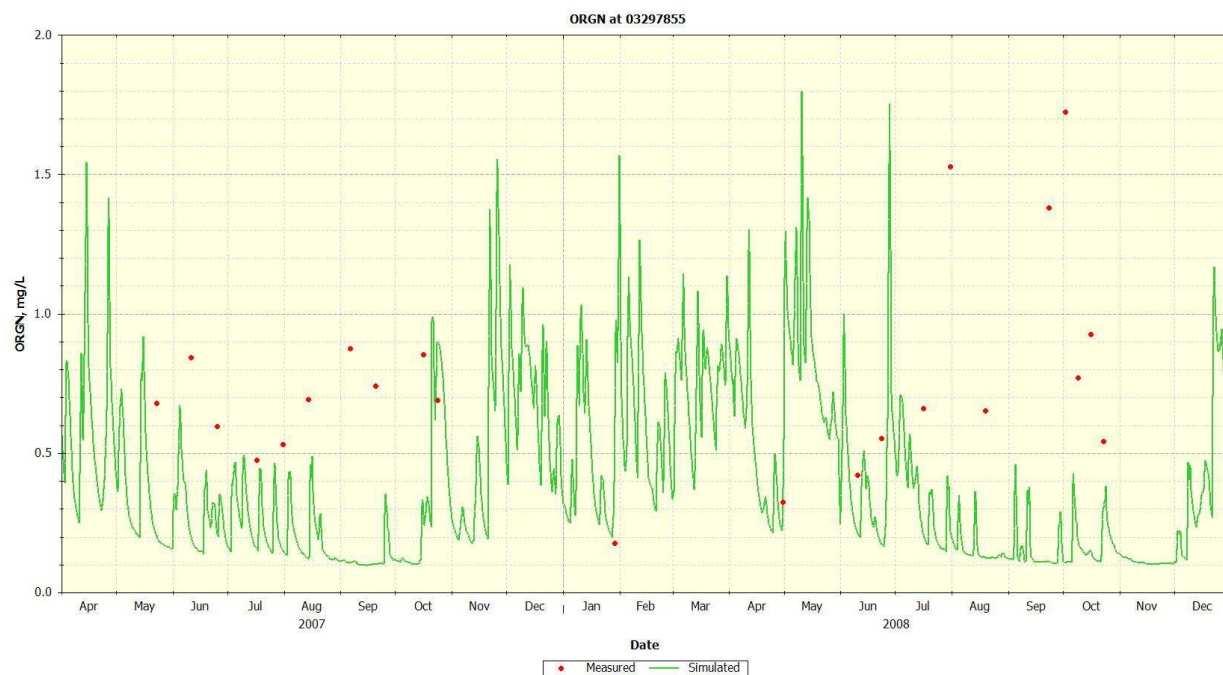


Figure A-161 Modeled vs. Observed ORGN (mg/L) at 03297855

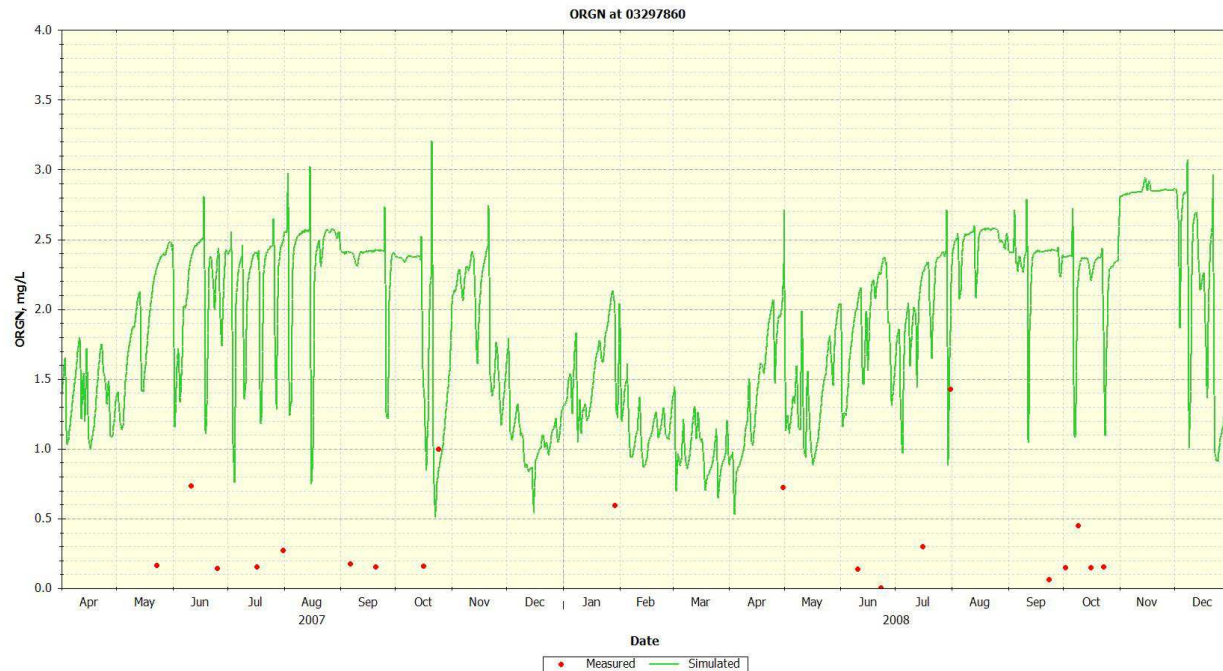


Figure A-162 Modeled vs. Observed ORGN (mg/L) at 03297860

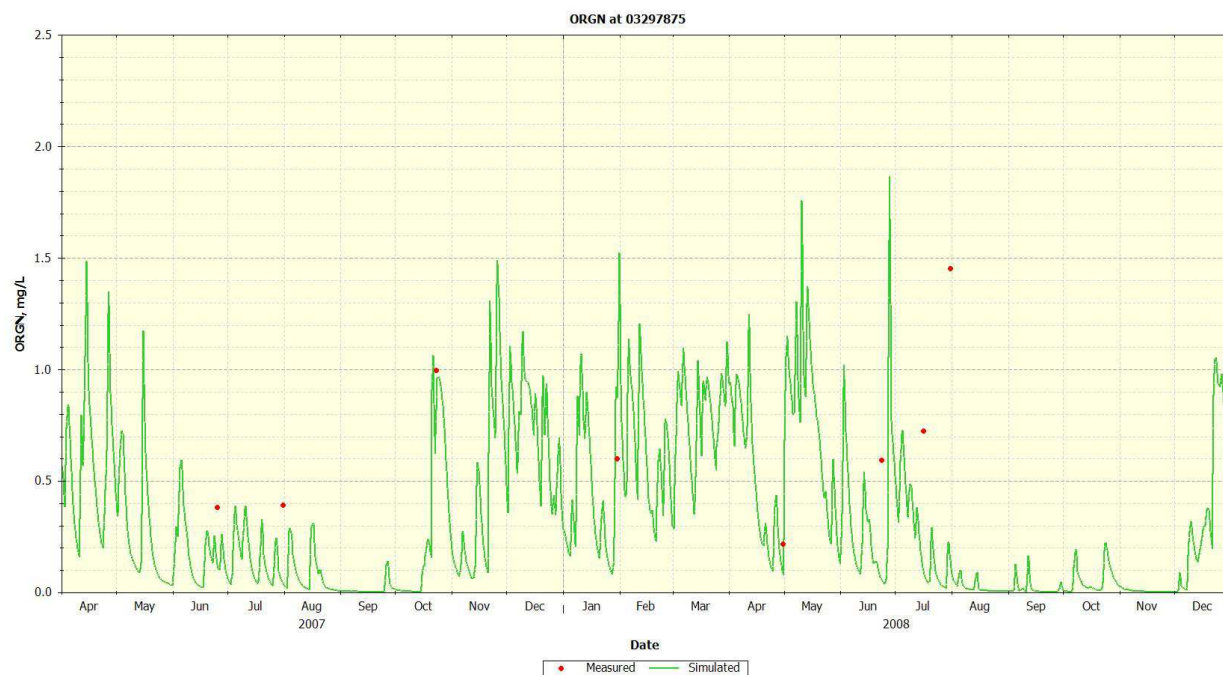


Figure A-163 Modeled vs. Observed ORGN (mg/L) at 03297875

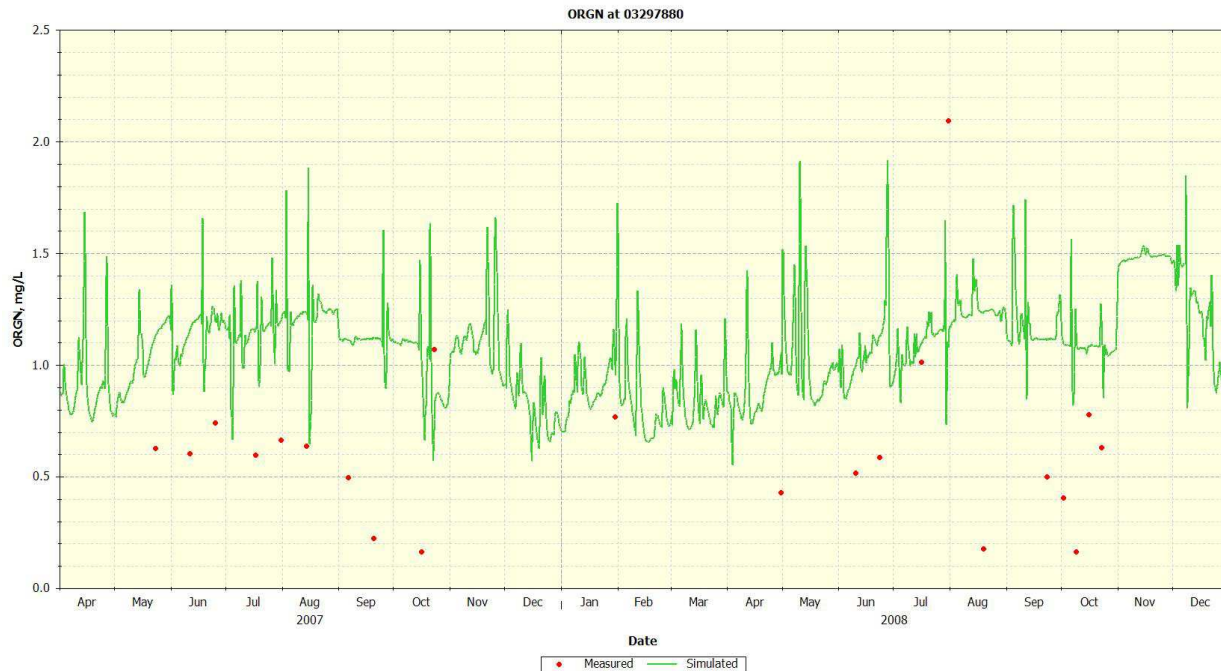


Figure A-164 Modeled vs. Observed ORGN (mg/L) at 03297880

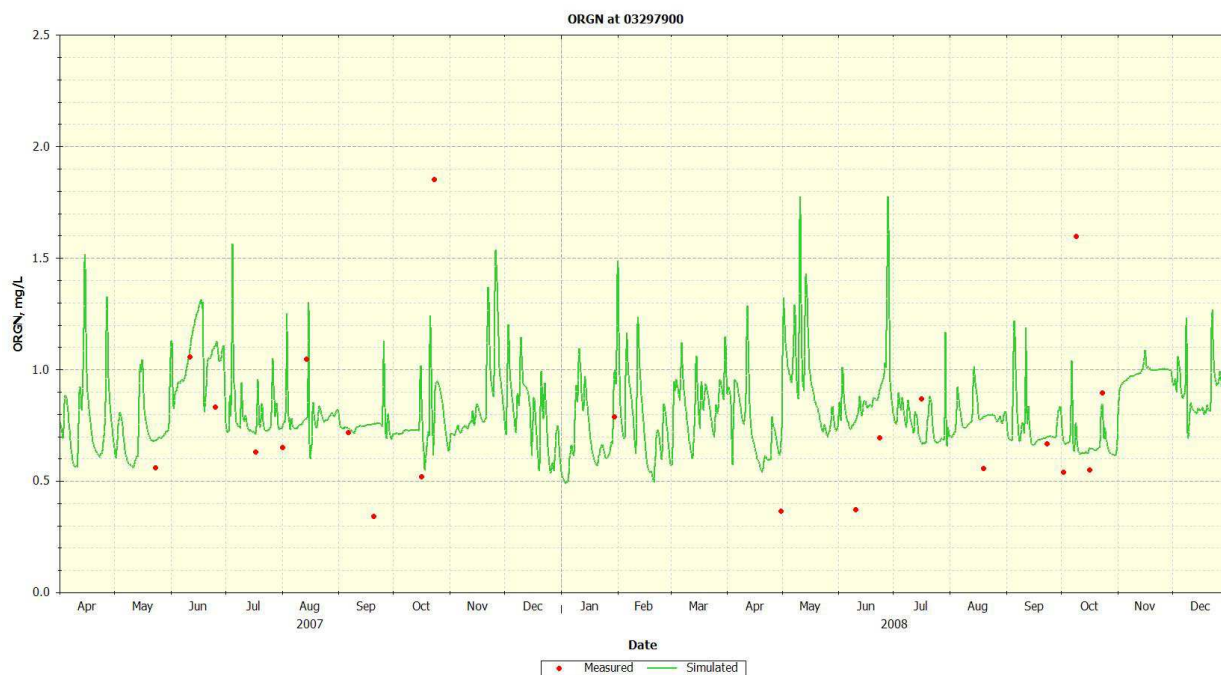


Figure A-165 Modeled vs. Observed ORGN (mg/L) at 03297900

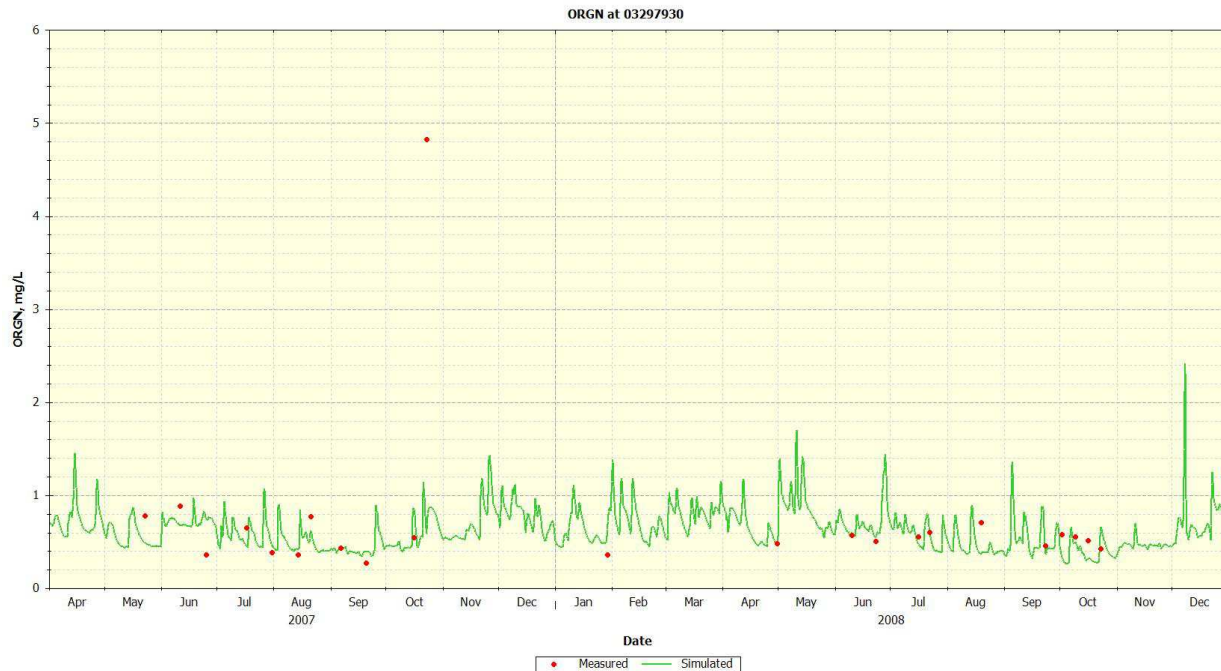


Figure A-166 Modeled vs. Observed ORGN (mg/L) at 03297930

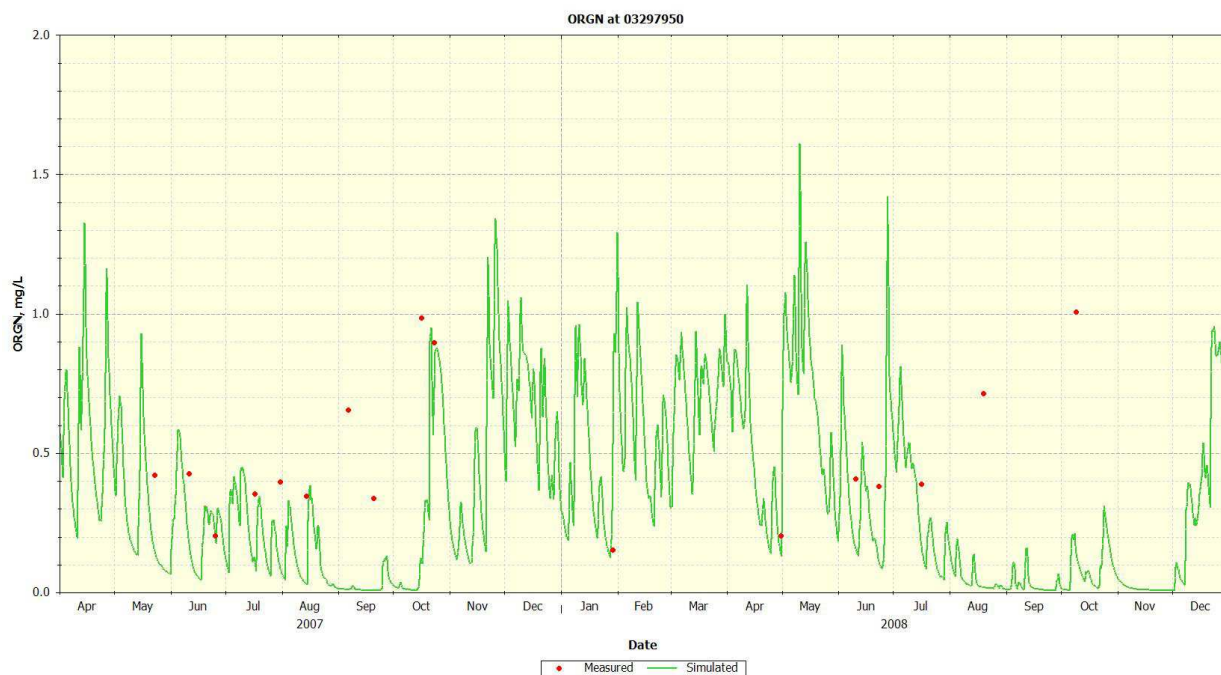


Figure A-167 Modeled vs. Observed ORGN (mg/L) at 03297950

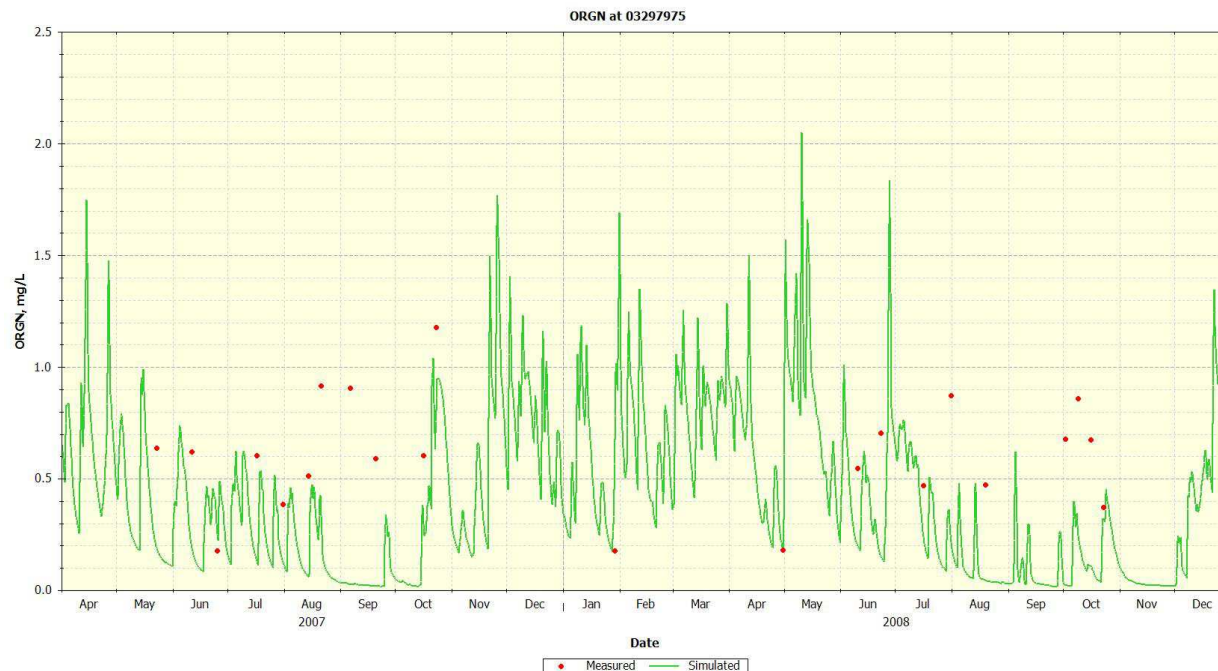


Figure A-168 Modeled vs. Observed ORGN (mg/L) at 03297975

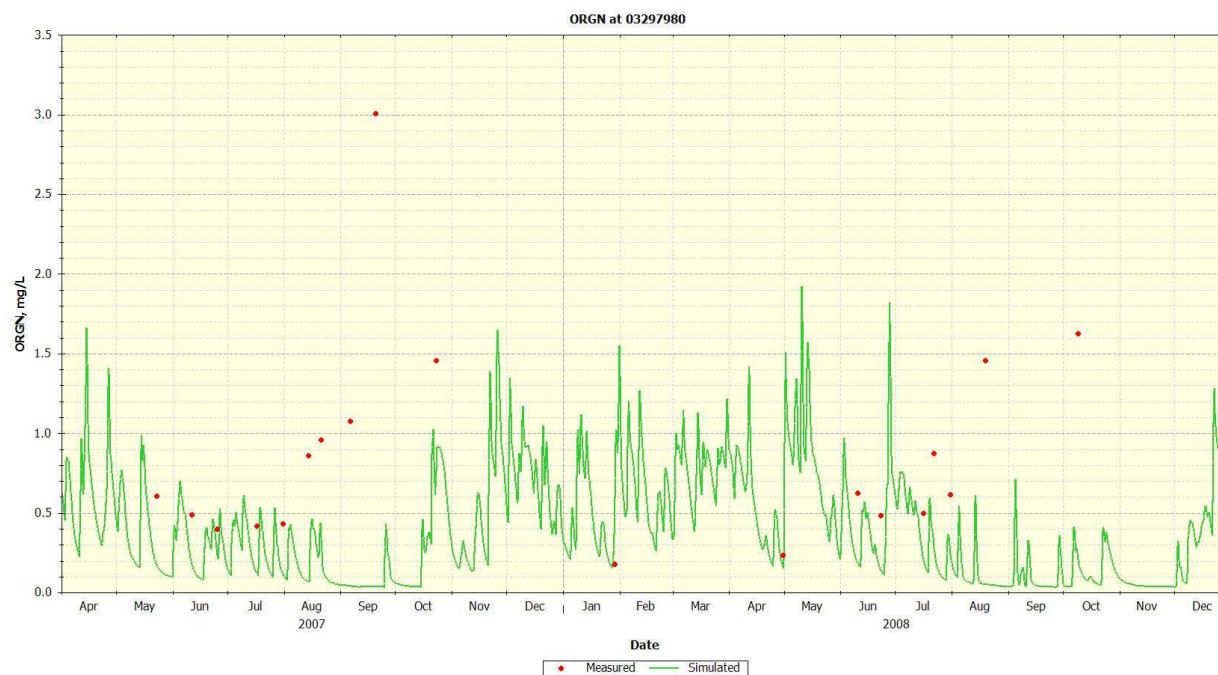


Figure A-169 Modeled vs. Observed ORGN (mg/L) at 03297980

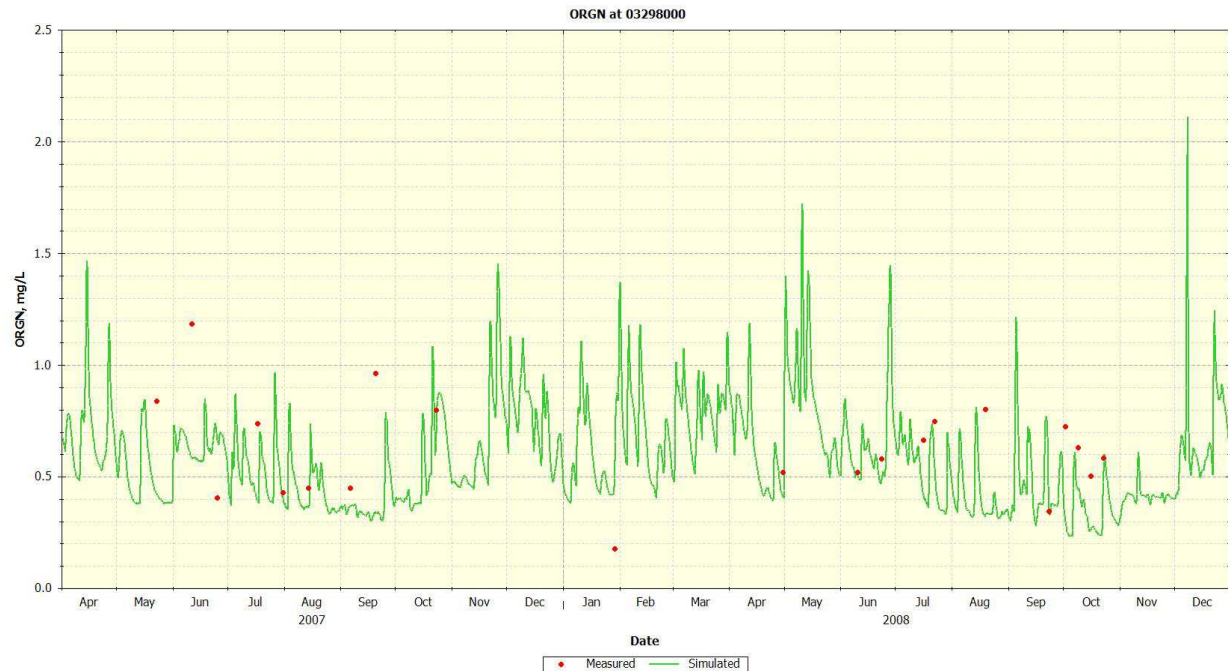


Figure A-170 Modeled vs. Observed ORGN (mg/L) at 03298000

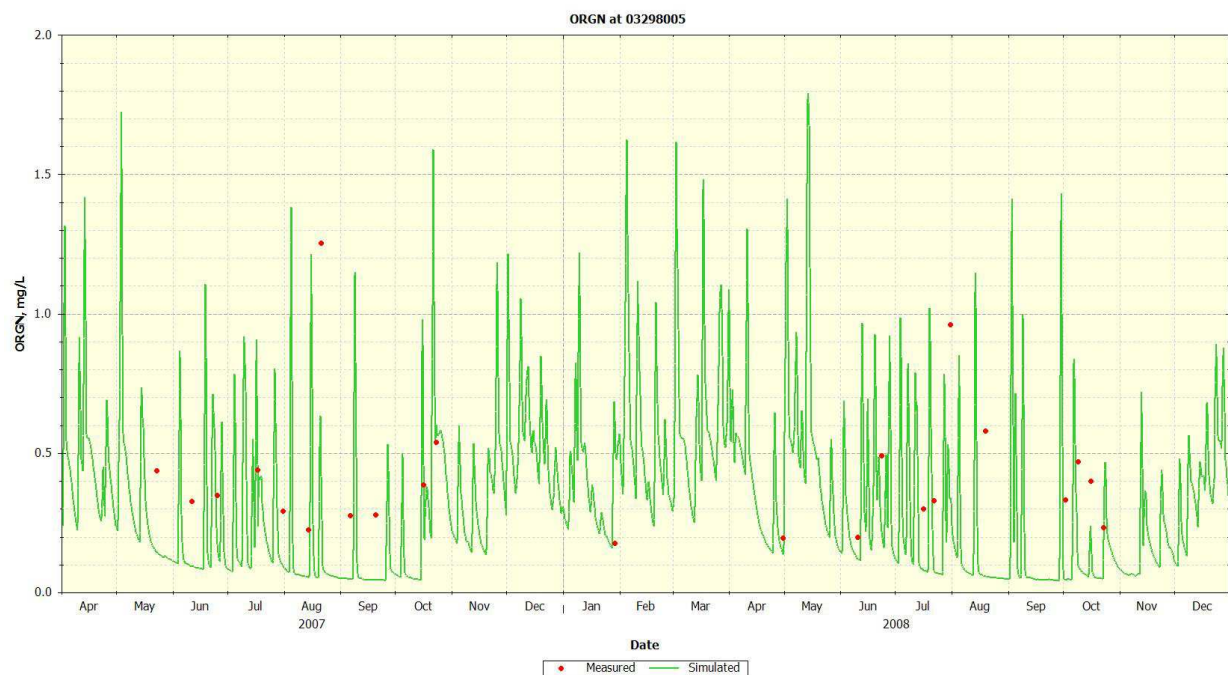


Figure A-171 Modeled vs. Observed ORGN (mg/L) at 03298005

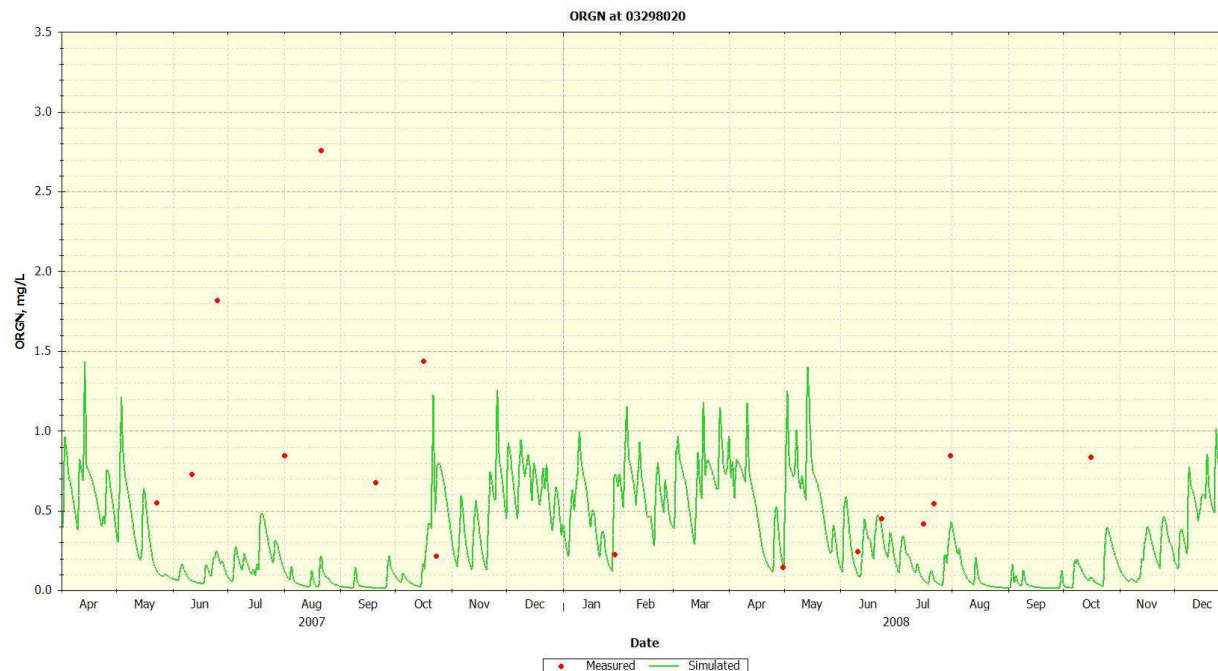


Figure A-172 Modeled vs. Observed ORGN (mg/L) at 03298020

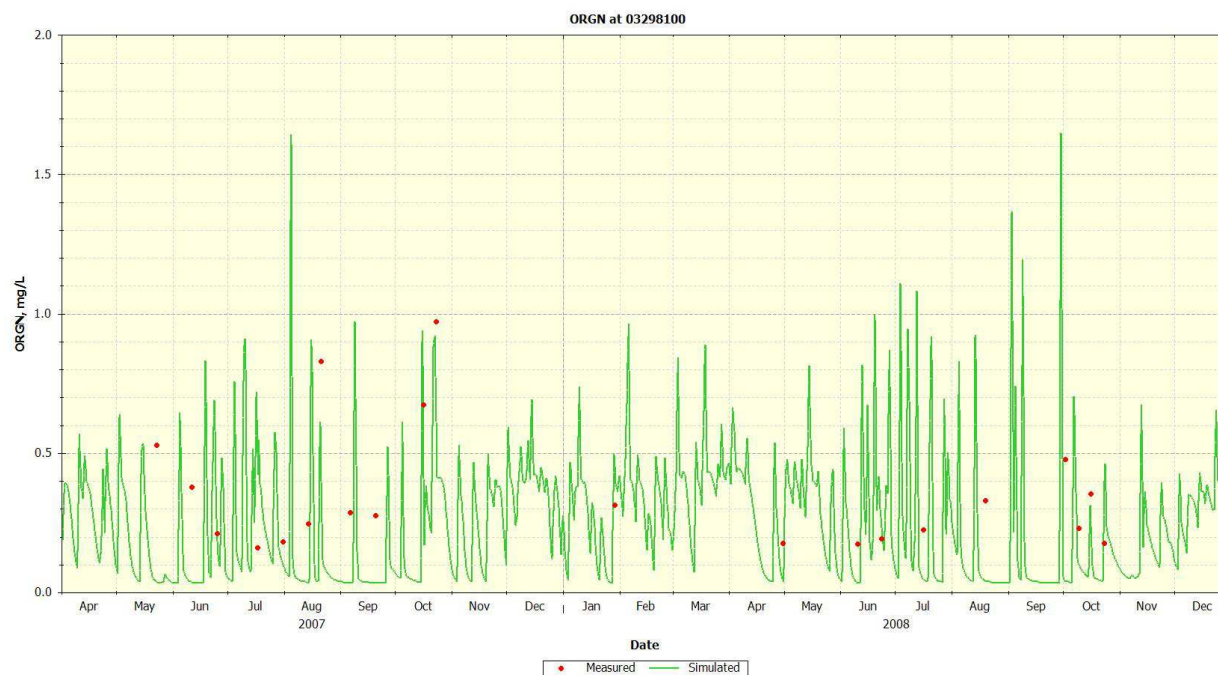


Figure A-173 Modeled vs. Observed ORGN (mg/L) at 03298100

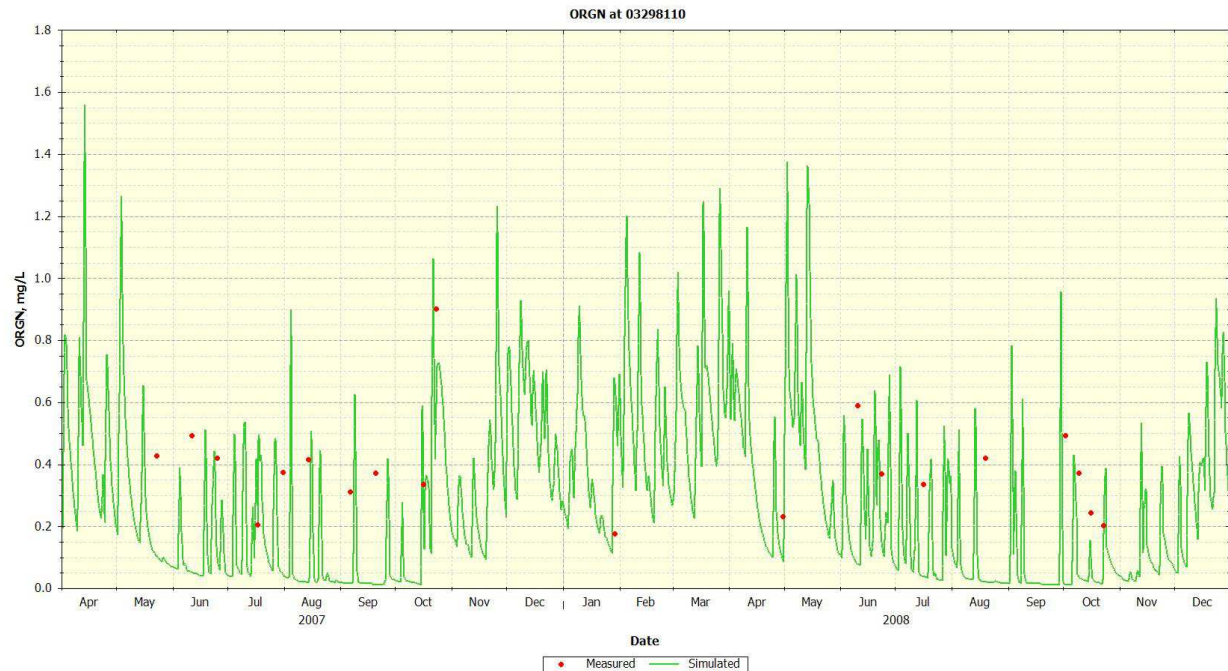


Figure A-174 Modeled vs. Observed ORGN (mg/L) at 03298110

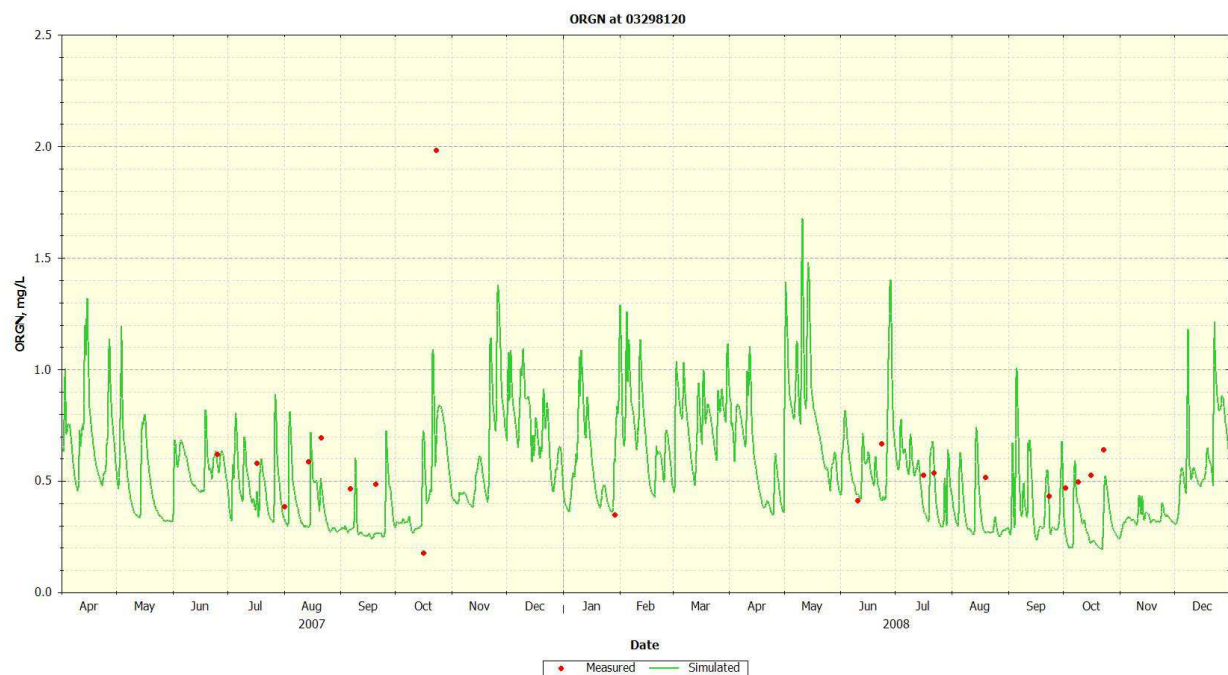


Figure A-175 Modeled vs. Observed ORGN (mg/L) at 03298120

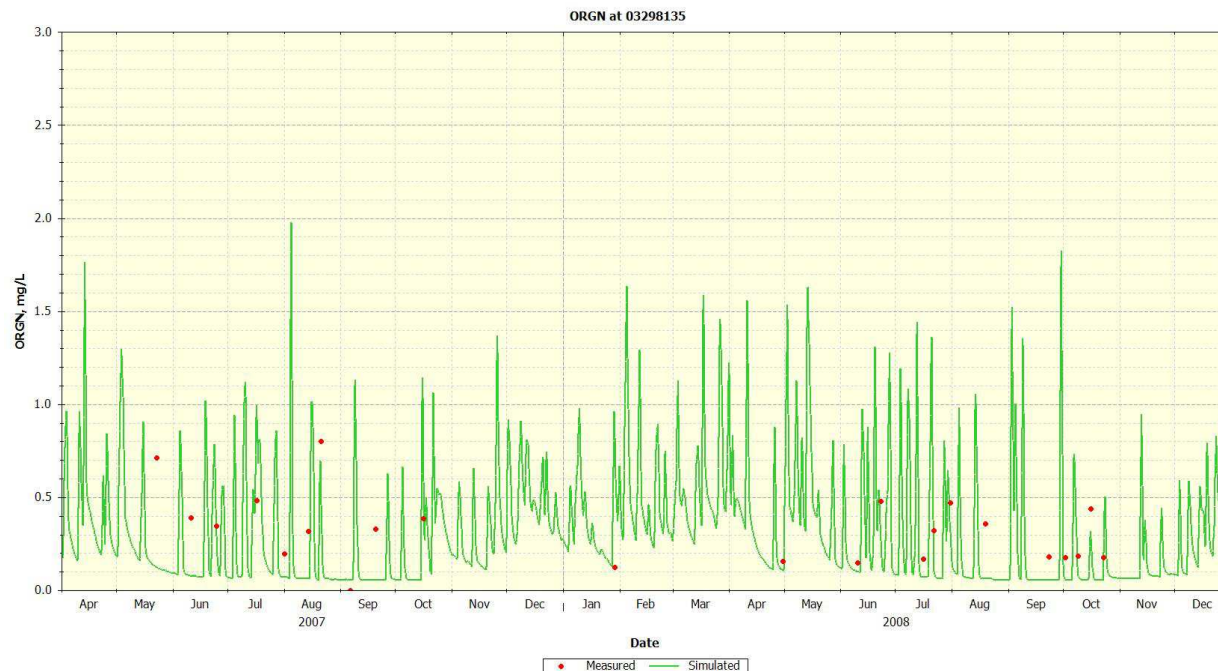


Figure A-176 Modeled vs. Observed ORGN (mg/L) at 03298135

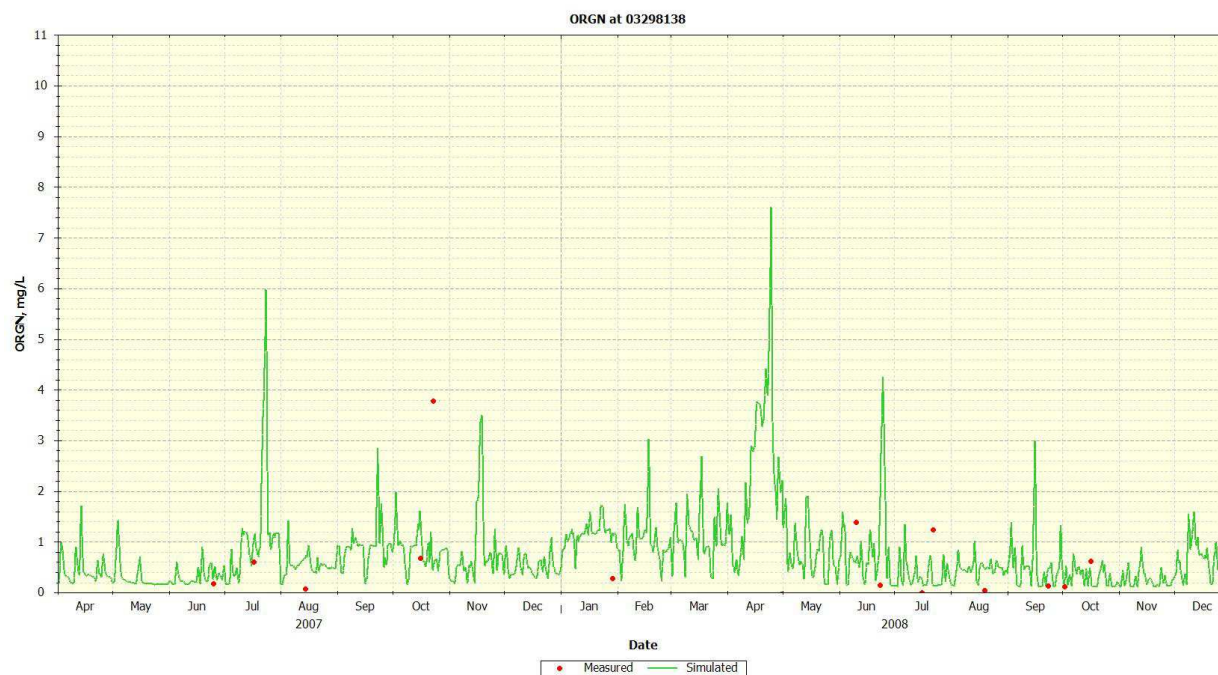


Figure A-177 Modeled vs. Observed ORGN (mg/L) at 03298138

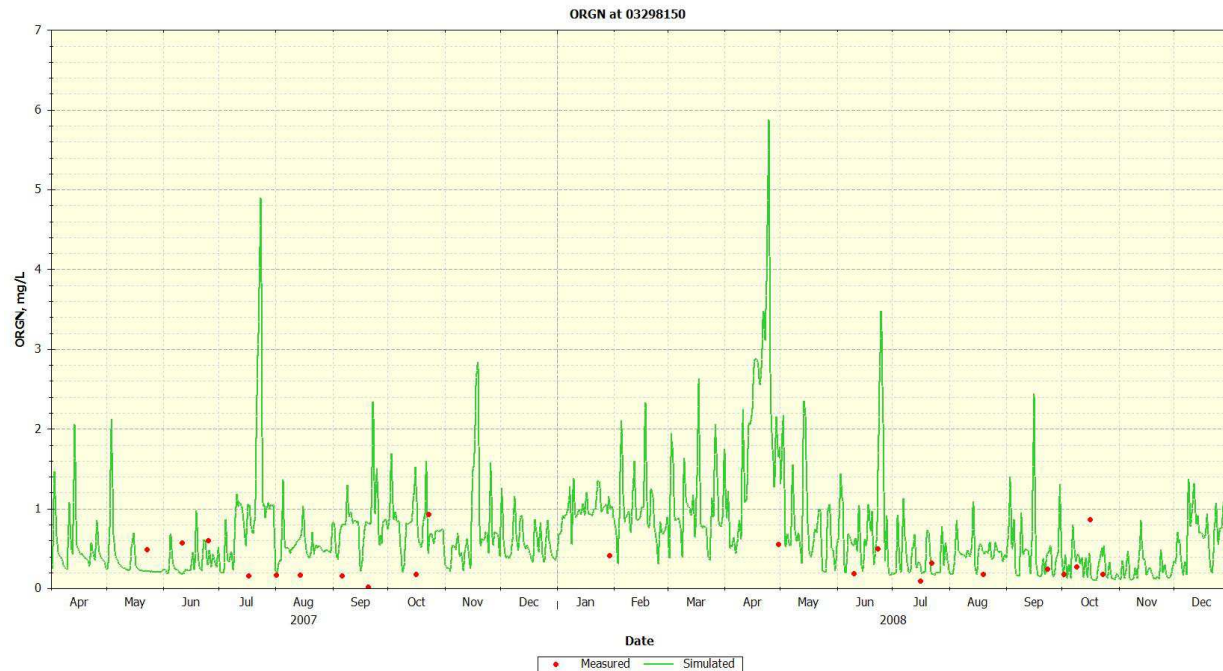


Figure A-178 Modeled vs. Observed ORGN (mg/L) at 03298150

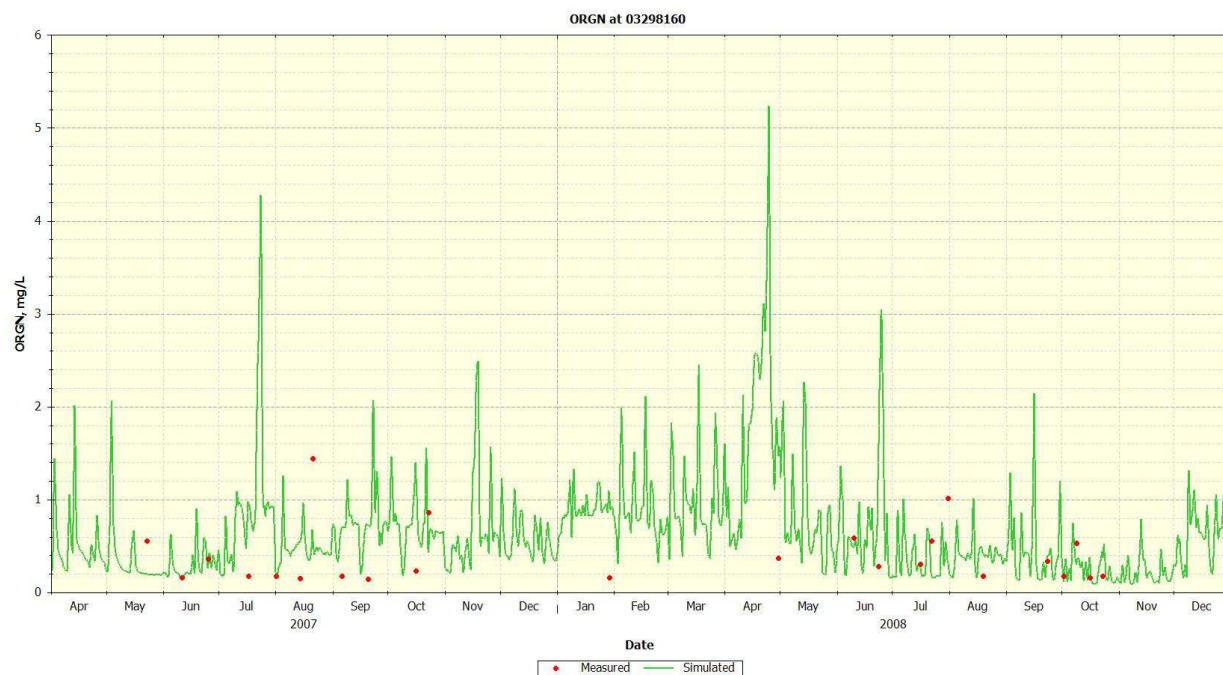


Figure A-179 Modeled vs. Observed ORGN (mg/L) at 03298160

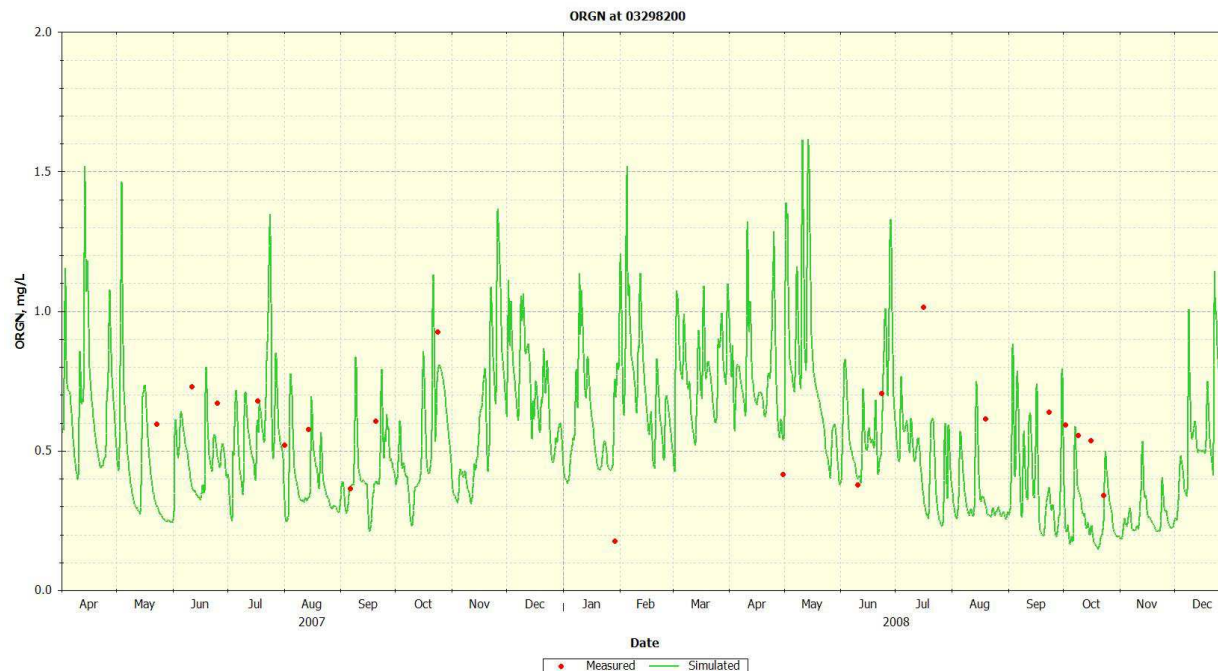


Figure A-180 Modeled vs. Observed ORGN (mg/L) at 03298200

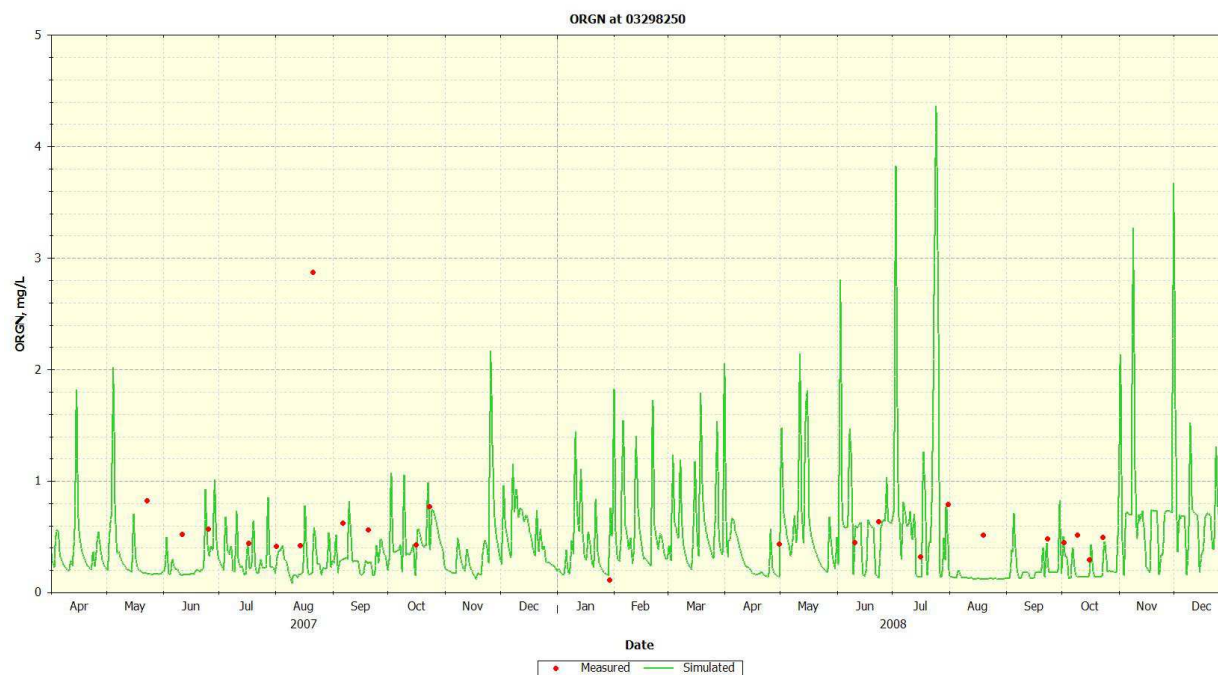


Figure A-181 Modeled vs. Observed ORGN (mg/L) at 03298250

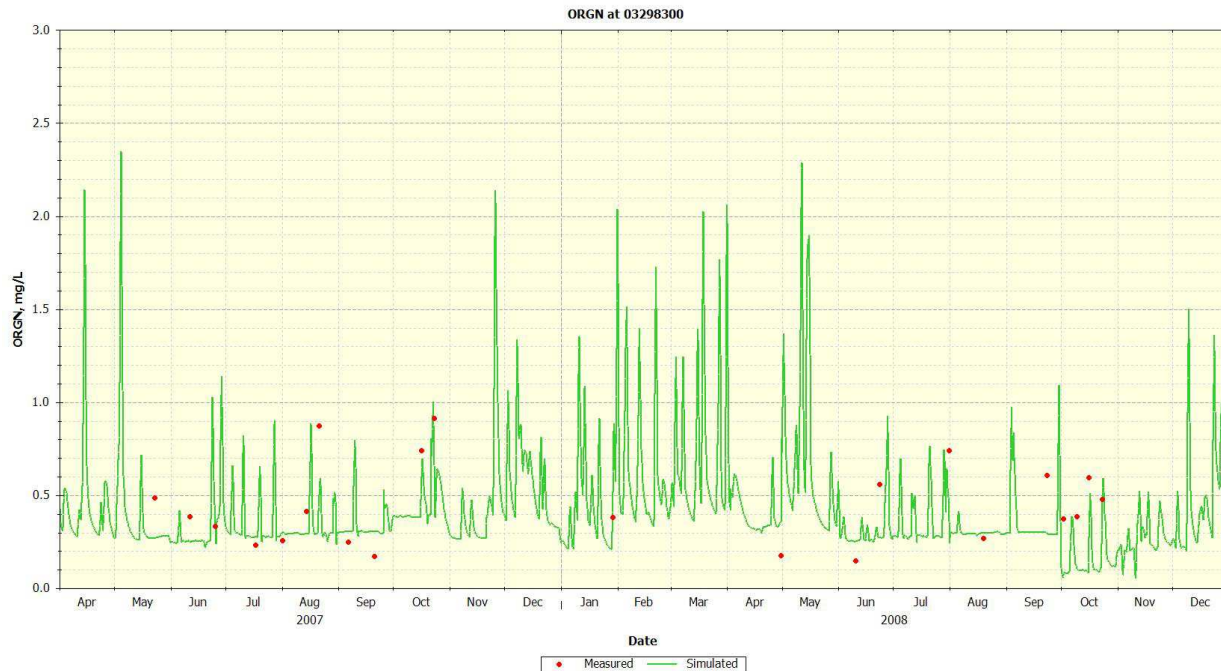


Figure A-182 Modeled vs. Observed ORGN (mg/L) at 03298300

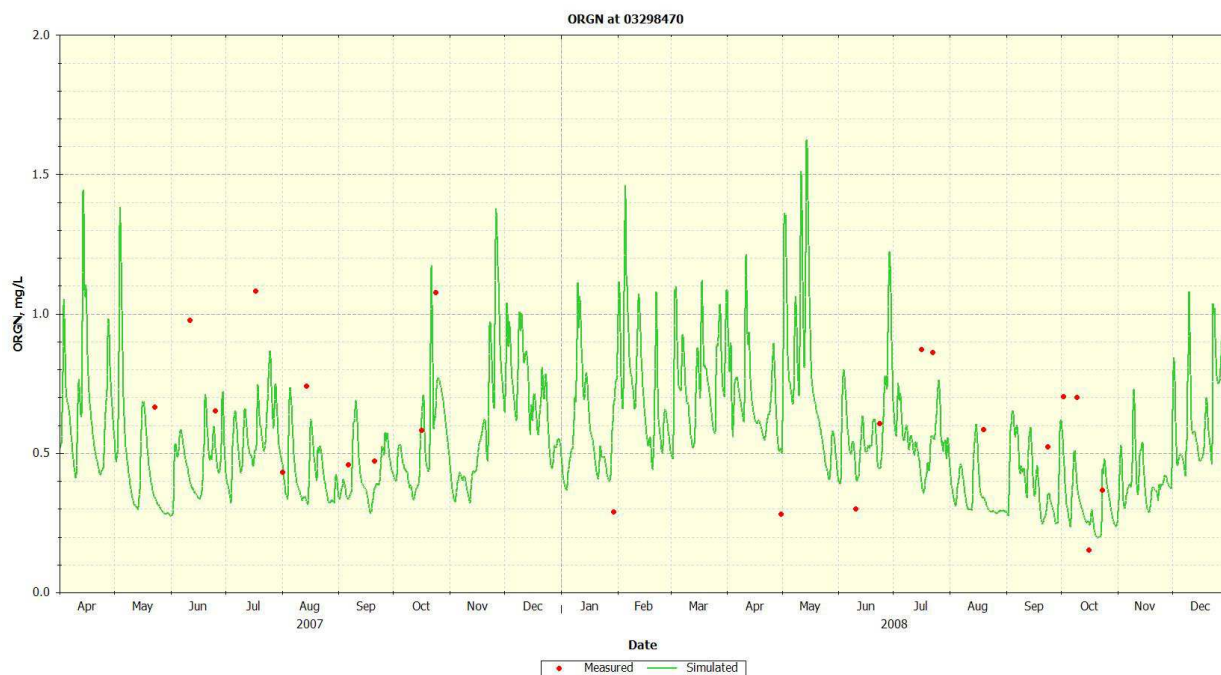


Figure A-183 Modeled vs. Observed ORGN (mg/L) at 03298470

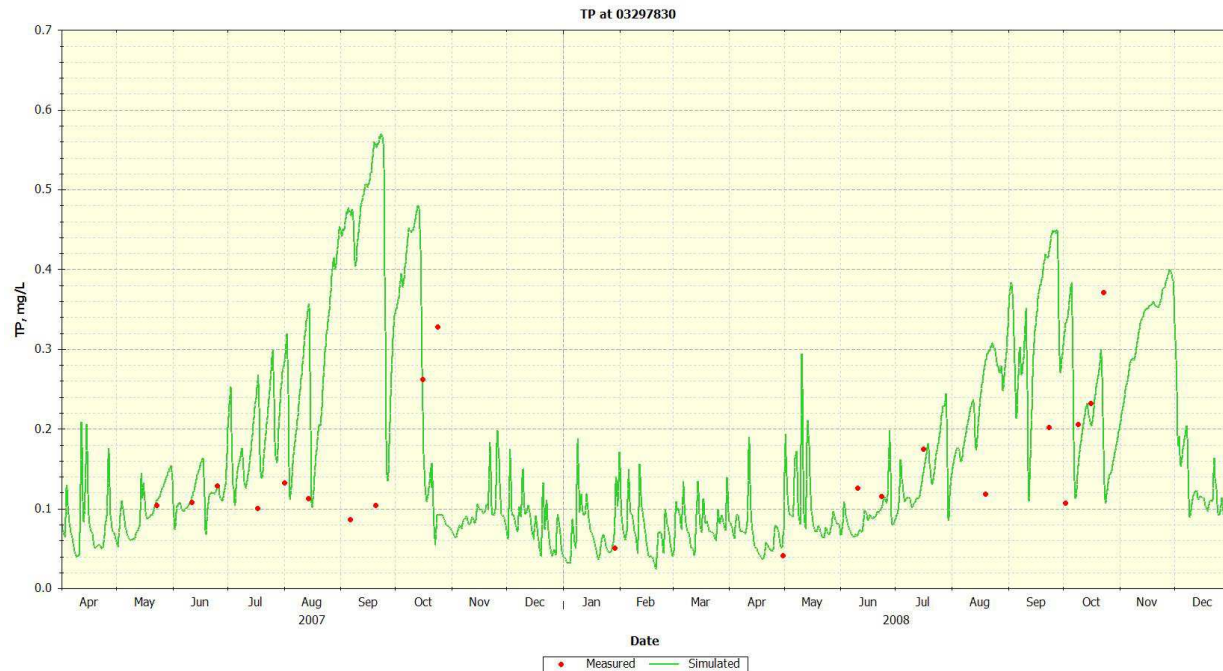


Figure A-184 Modeled vs. Observed TP (mg/L) at 03297830

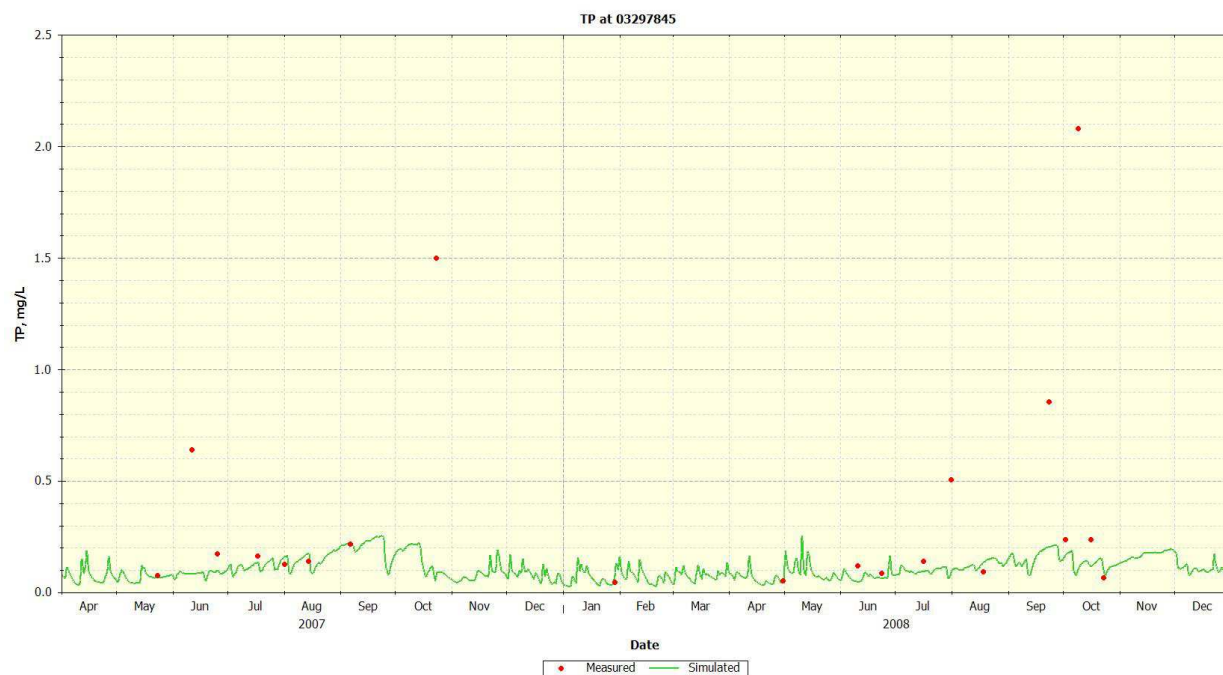


Figure A-185 Modeled vs. Observed TP (mg/L) at 03297845

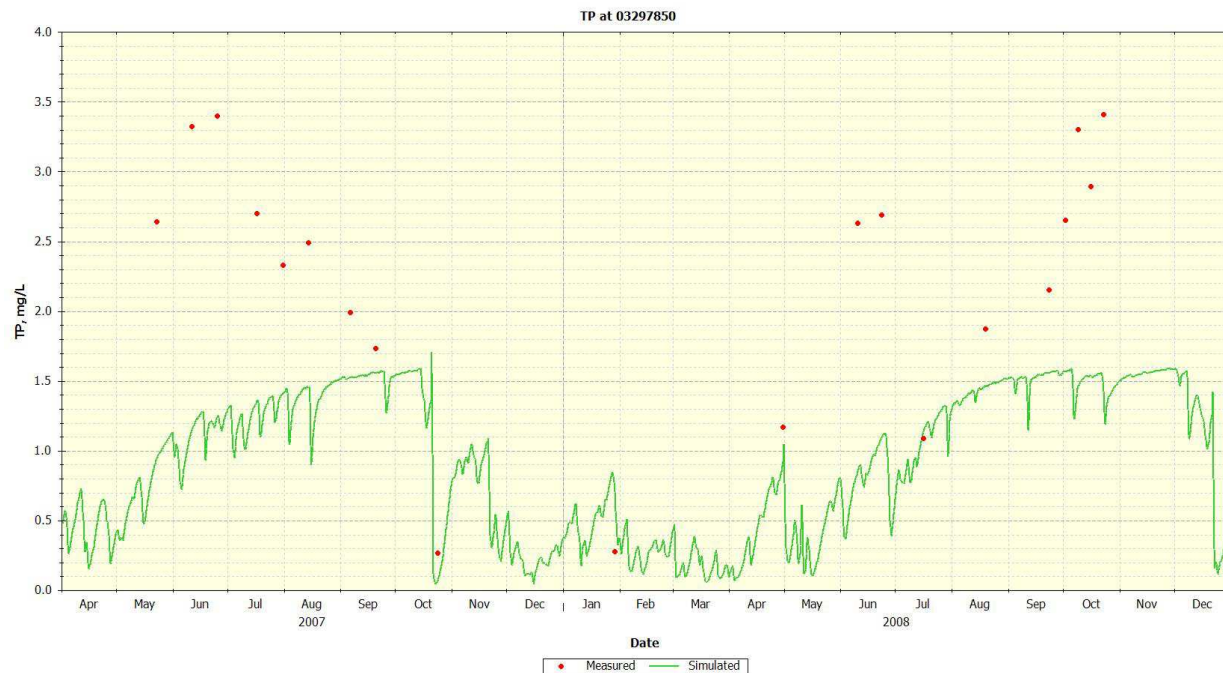


Figure A-186 Modeled vs. Observed TP (mg/L) at 03297850

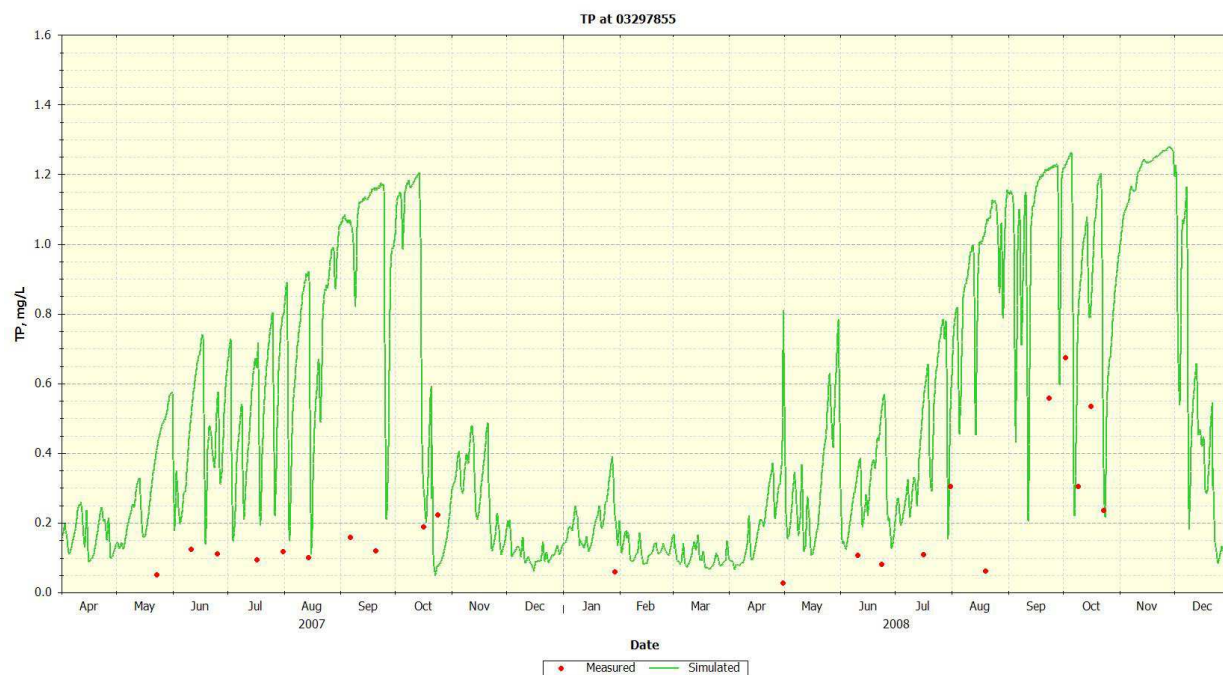


Figure A-187 Modeled vs. Observed TP (mg/L) at 03297855

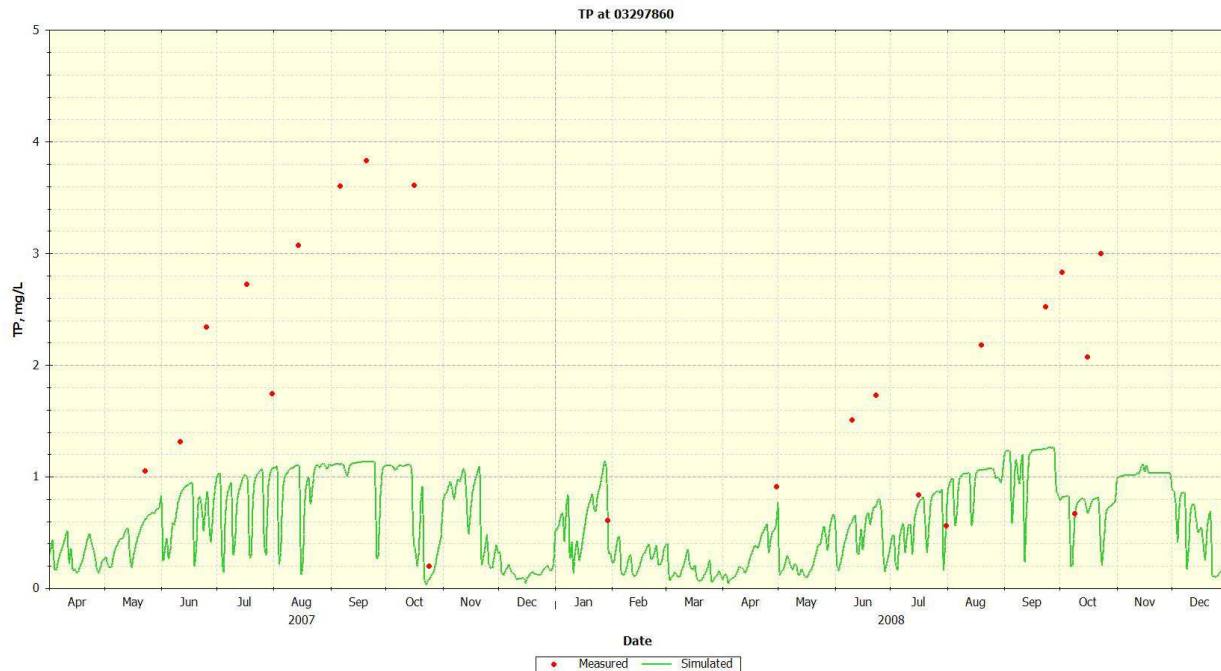


Figure A-188 Modeled vs. Observed TP (mg/L) at 03297860

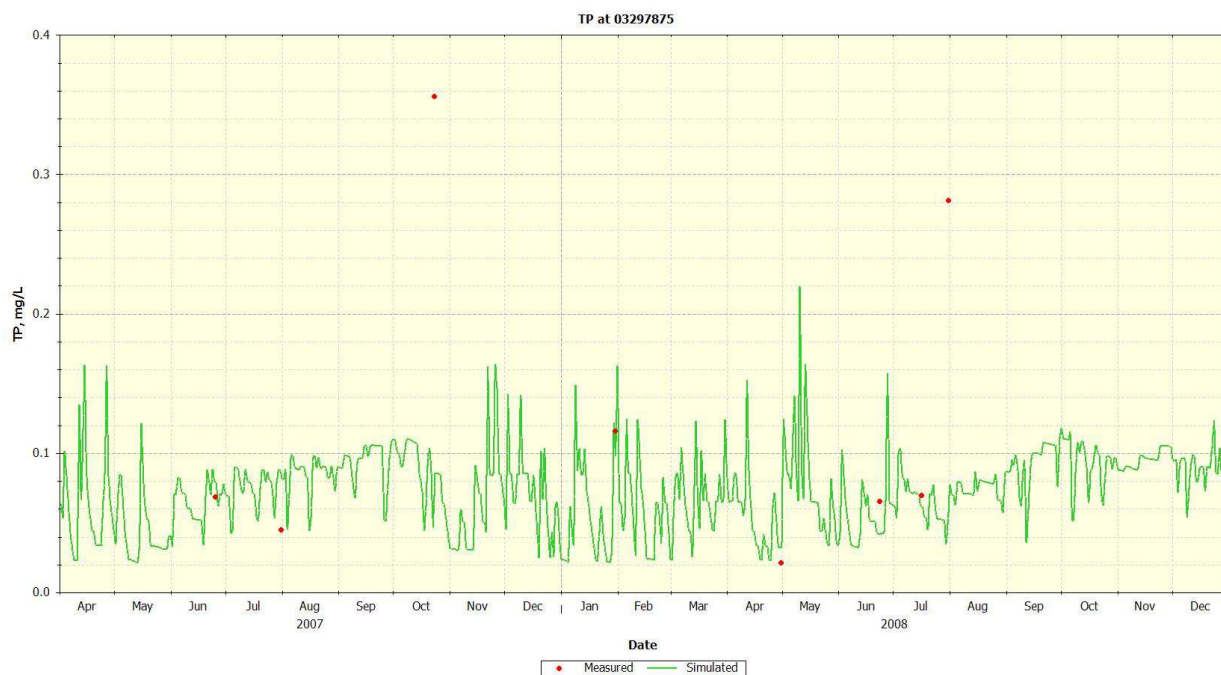


Figure A-189 Modeled vs. Observed TP (mg/L) at 03297875

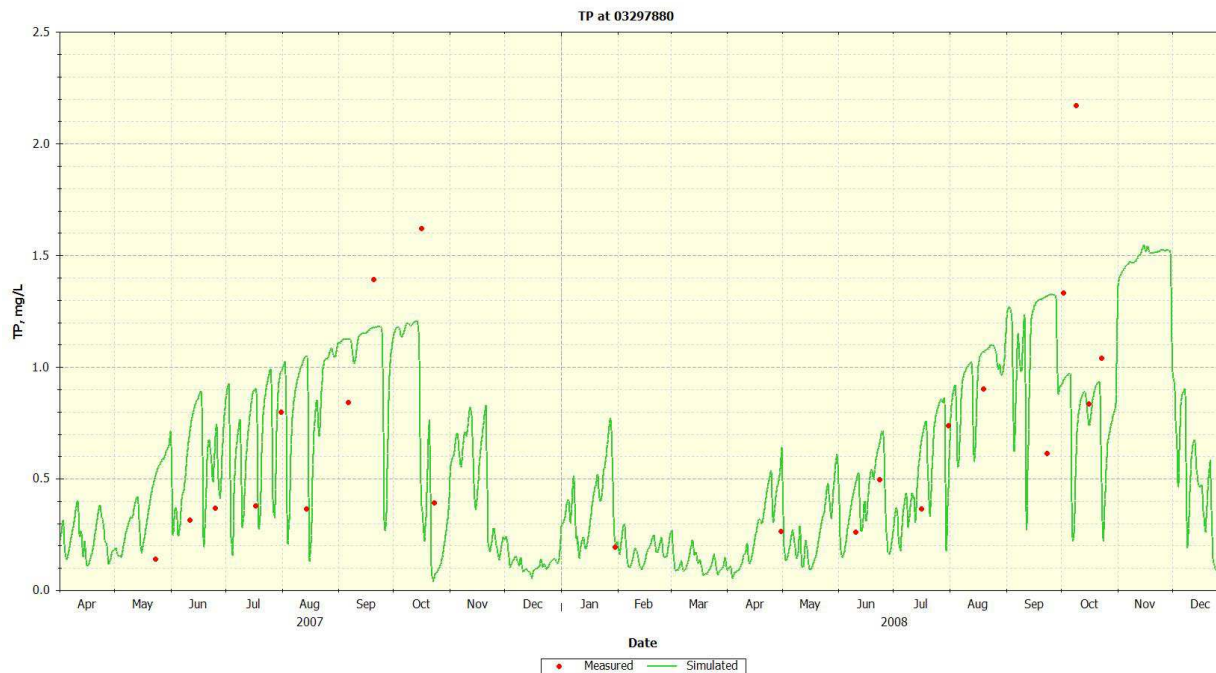


Figure A-190 Modeled vs. Observed TP (mg/L) at 03297880

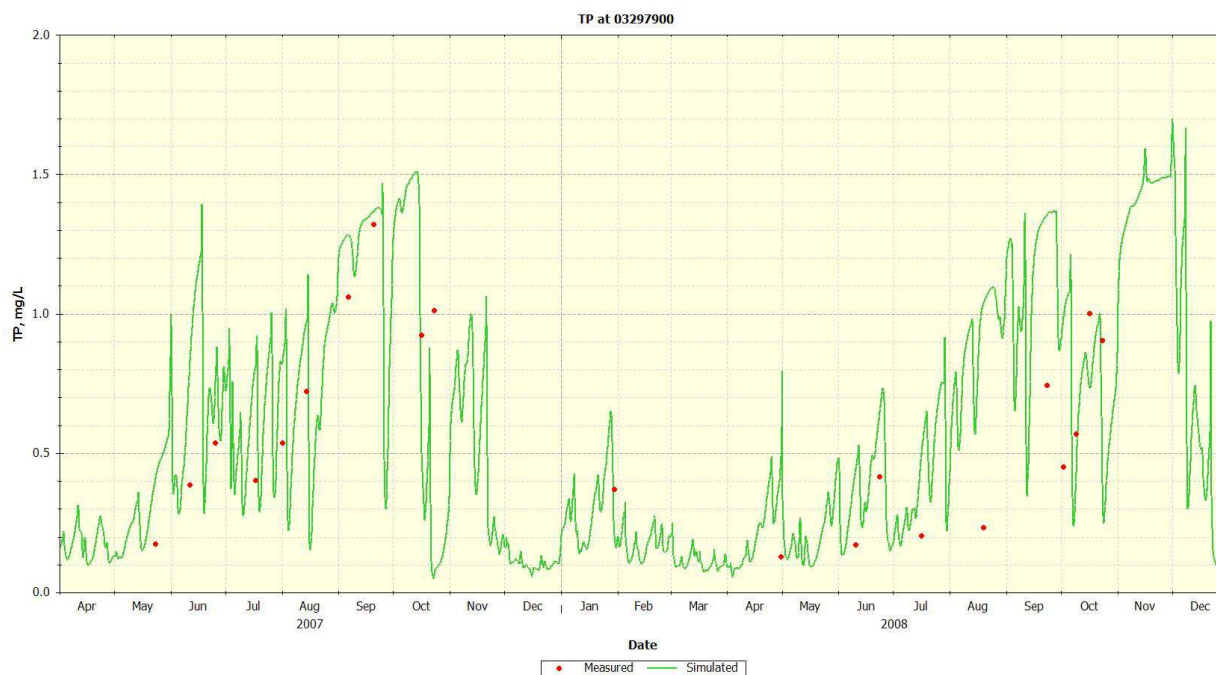


Figure A-191 Modeled vs. Observed TP (mg/L) at 03297900

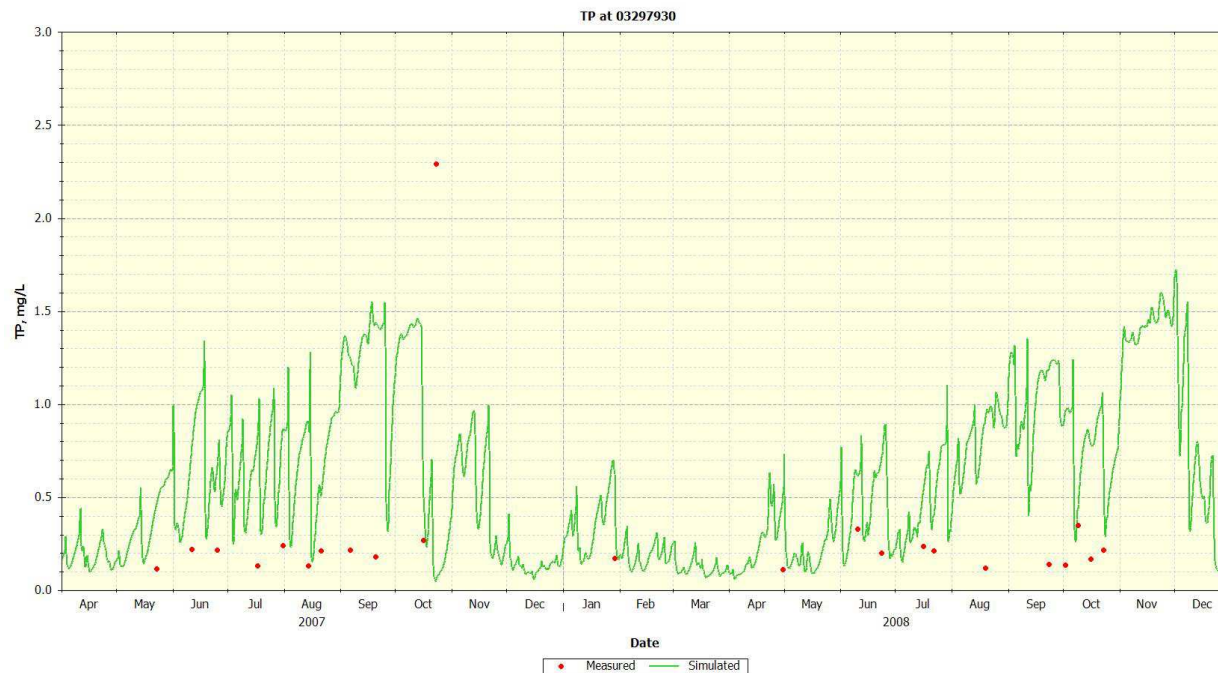


Figure A-192 Modeled vs. Observed TP (mg/L) at 03297930

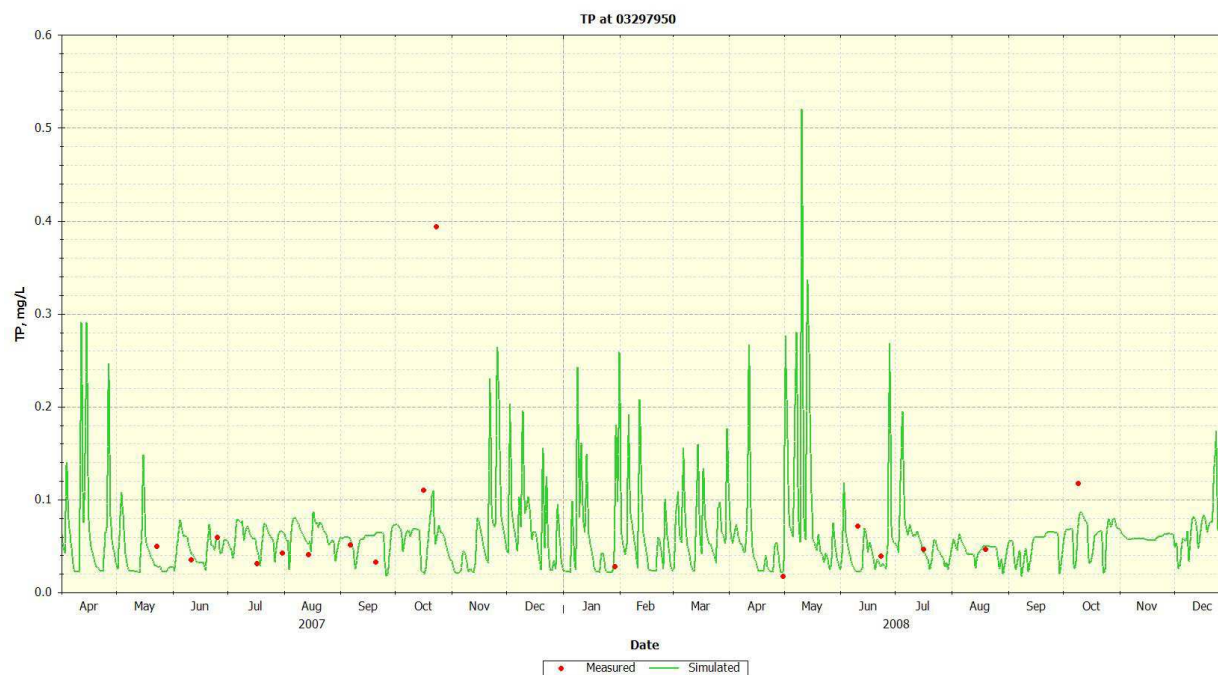


Figure A-193 Modeled vs. Observed TP (mg/L) at 03297950

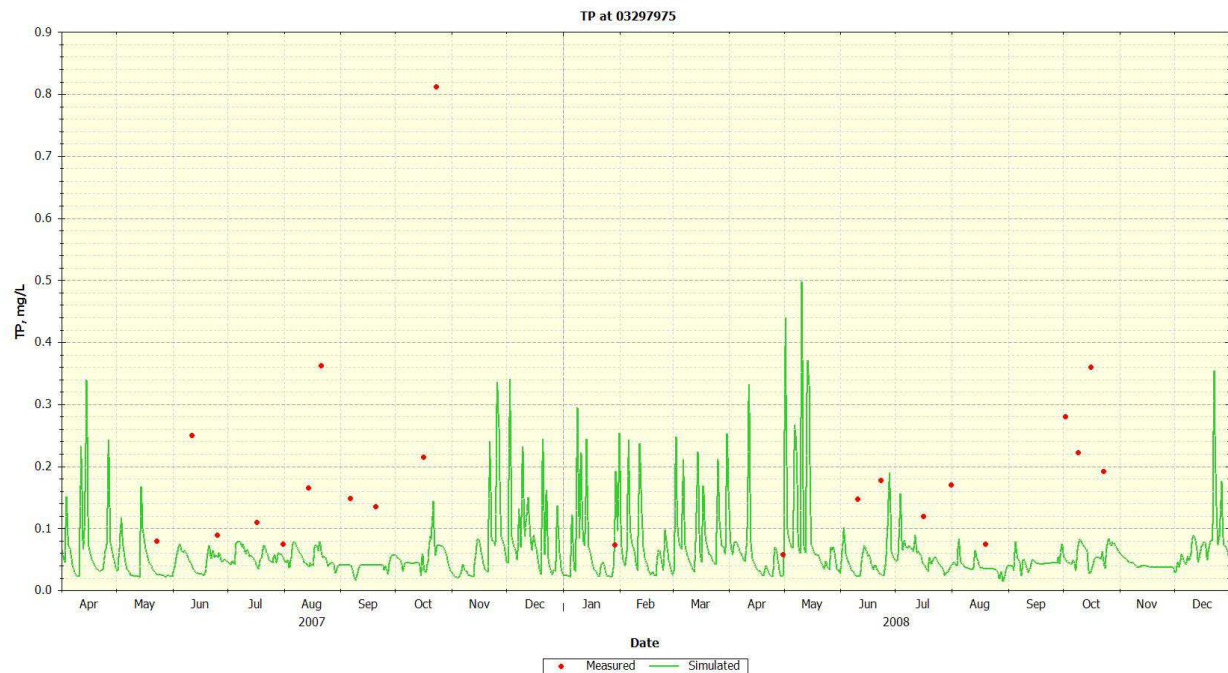


Figure A-194 Modeled vs. Observed TP (mg/L) at 03297975

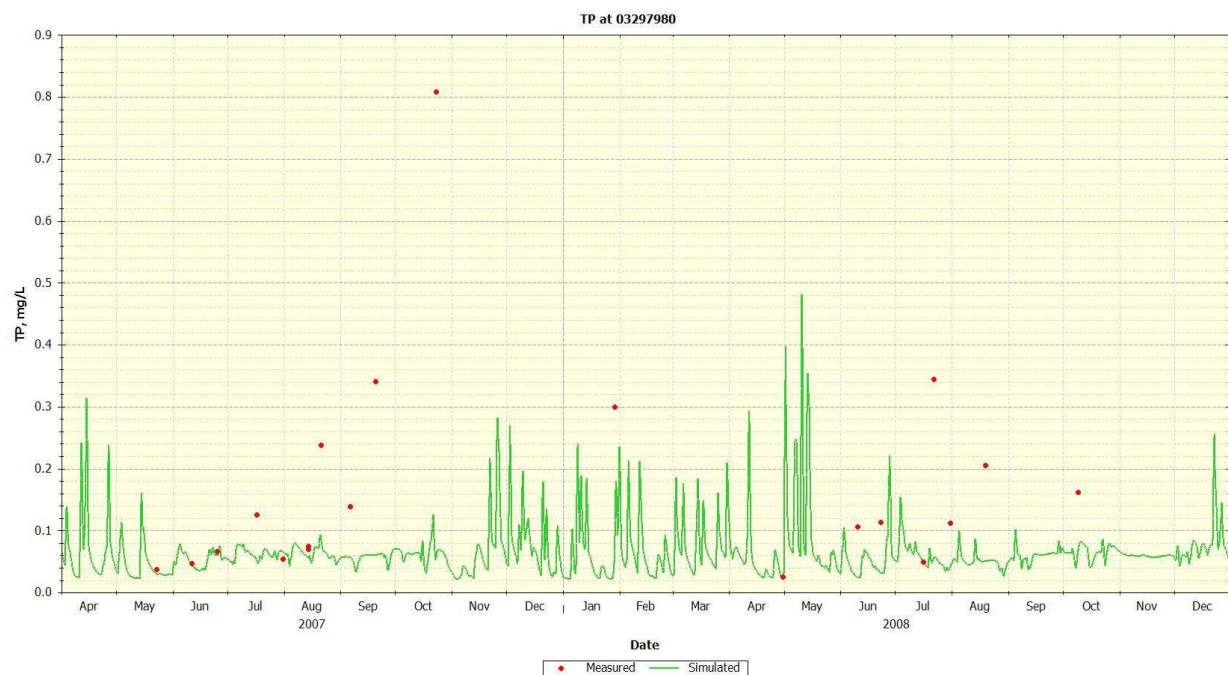


Figure A-195 Modeled vs. Observed TP (mg/L) at 03297980

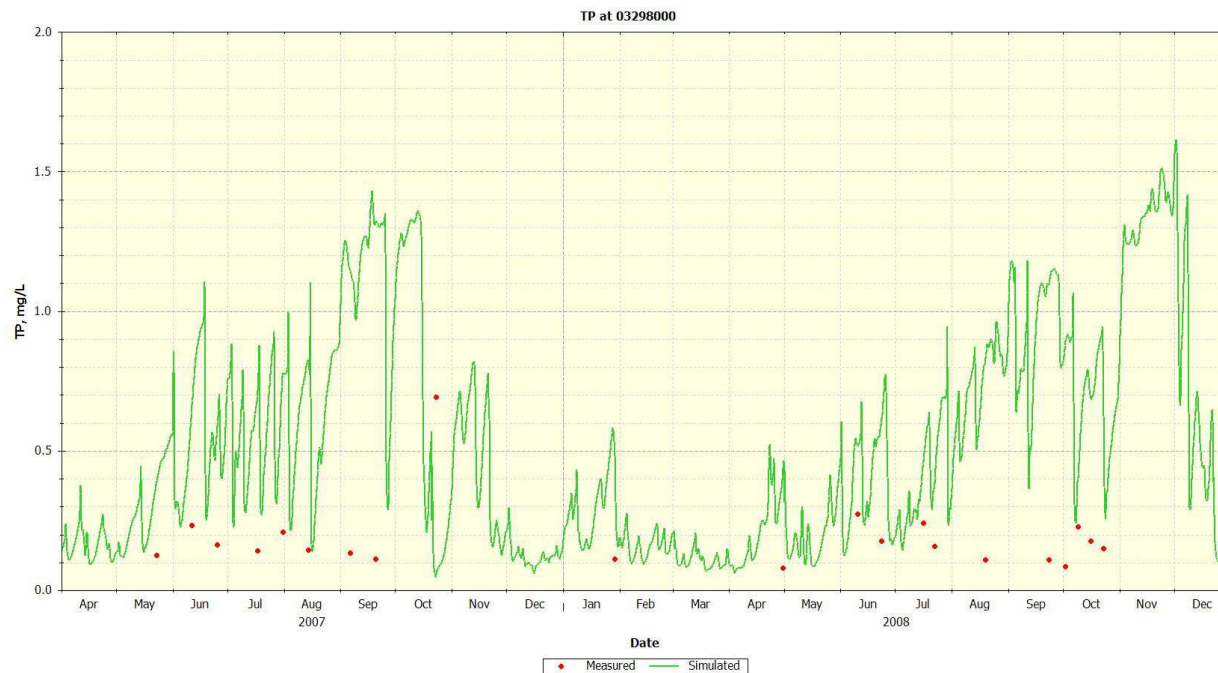


Figure A-196 Modeled vs. Observed TP (mg/L) at 03298000

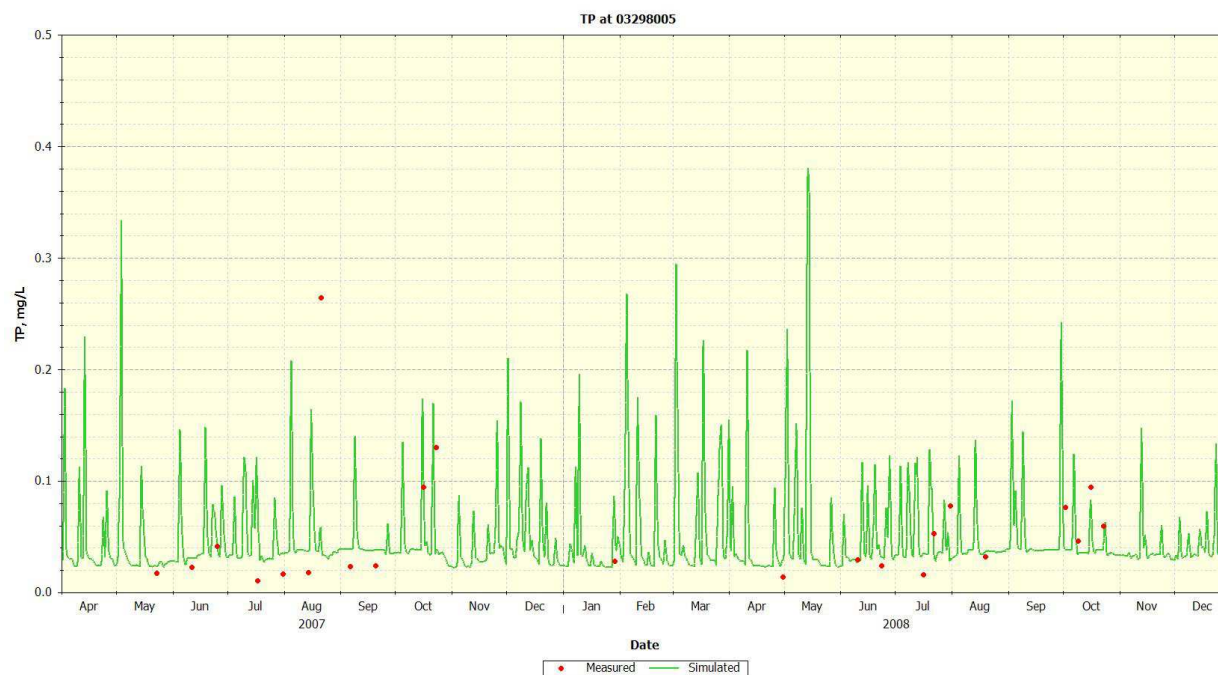


Figure A-197 Modeled vs. Observed TP (mg/L) at 03298005

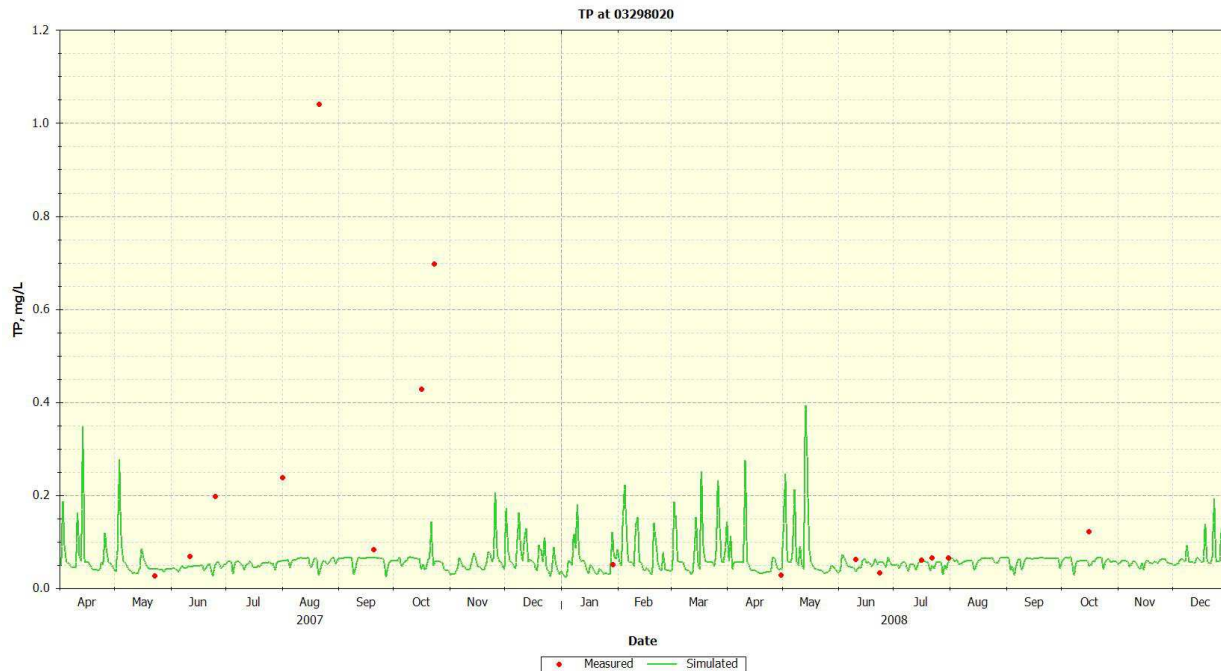


Figure A-198 Modeled vs. Observed TP (mg/L) at 03298020

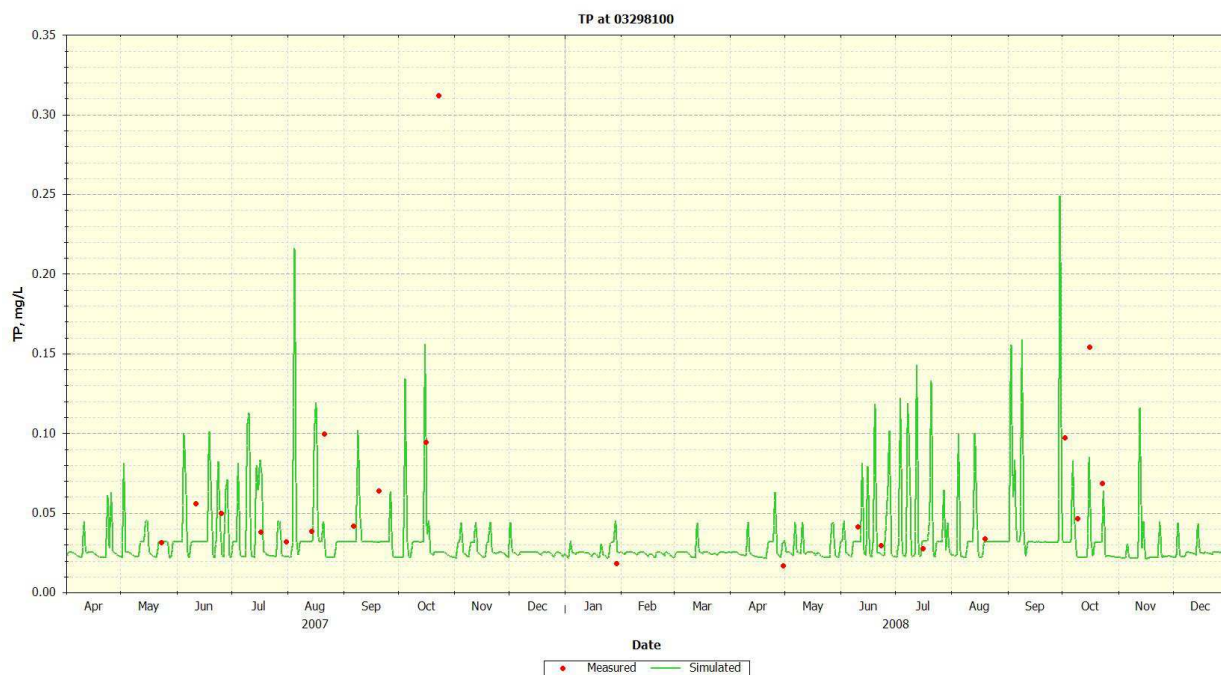


Figure A-199 Modeled vs. Observed TP (mg/L) at 03298100

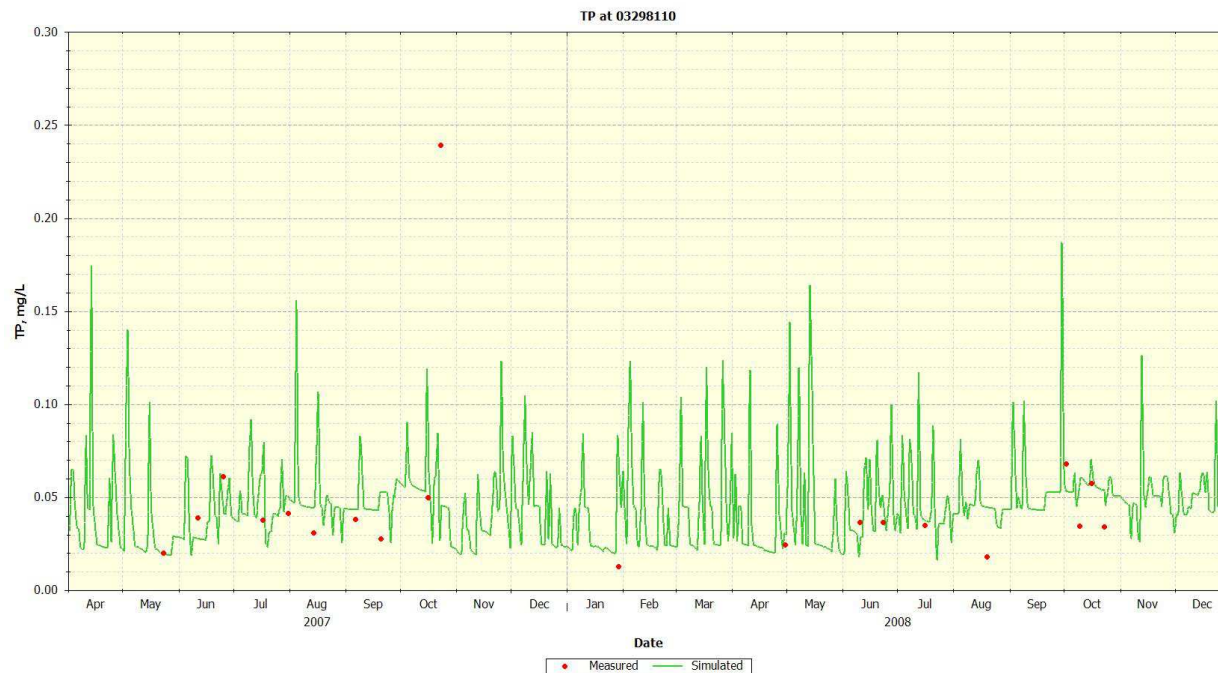


Figure A-200 Modeled vs. Observed TP (mg/L) at 03298110

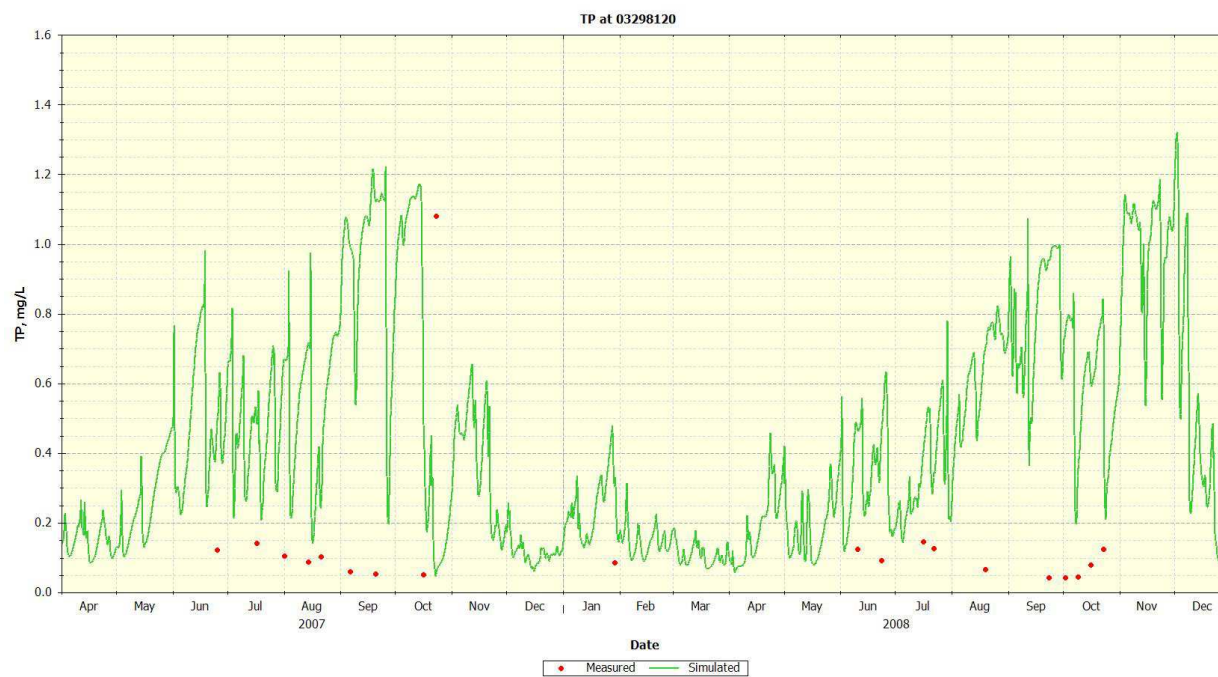


Figure A-201 Modeled vs. Observed TP (mg/L) at 03298120

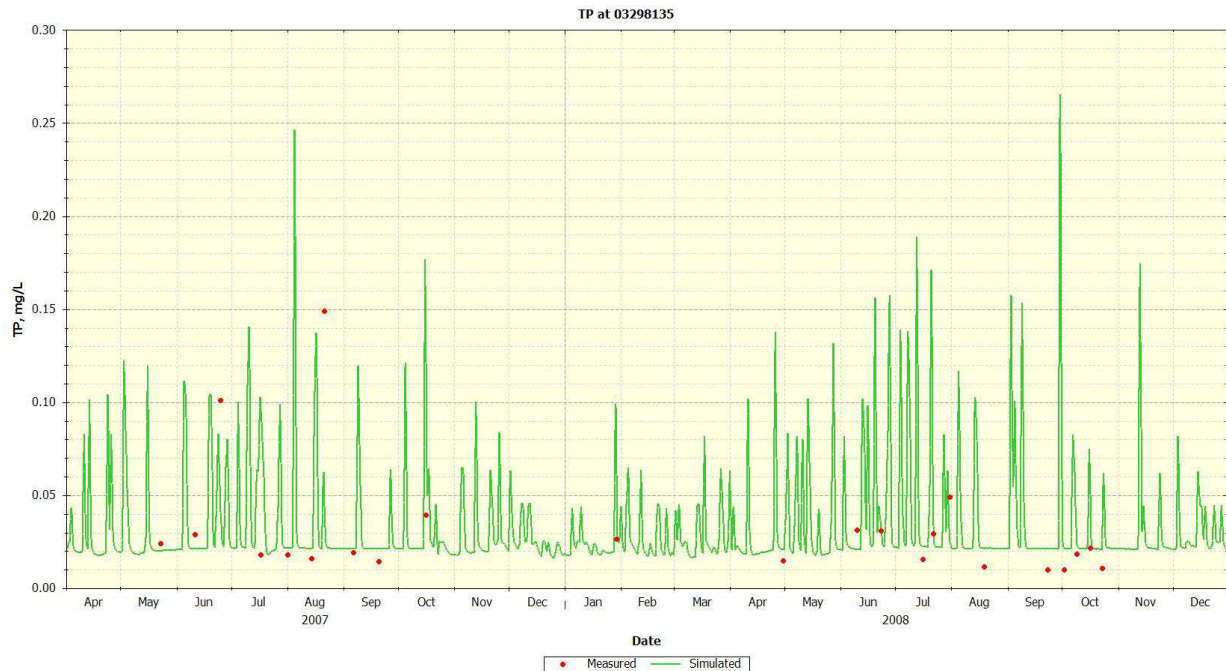


Figure A-202 Modeled vs. Observed TP (mg/L) at 03298135

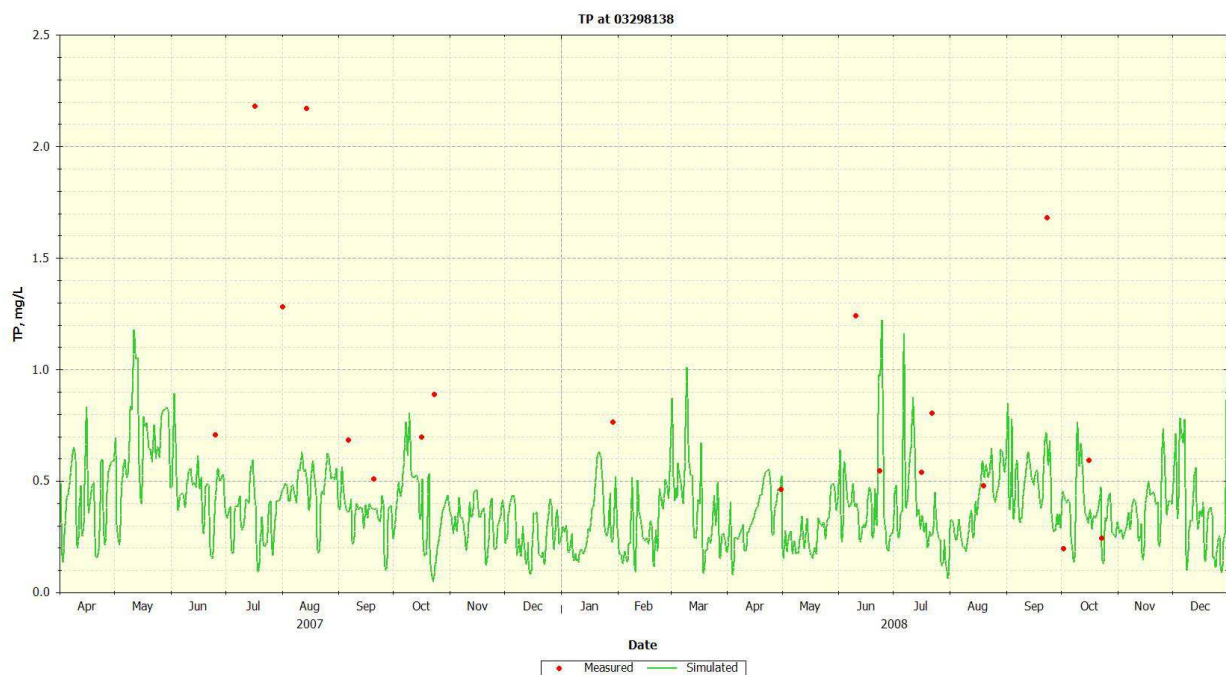


Figure A-203 Modeled vs. Observed TP (mg/L) at 03298138

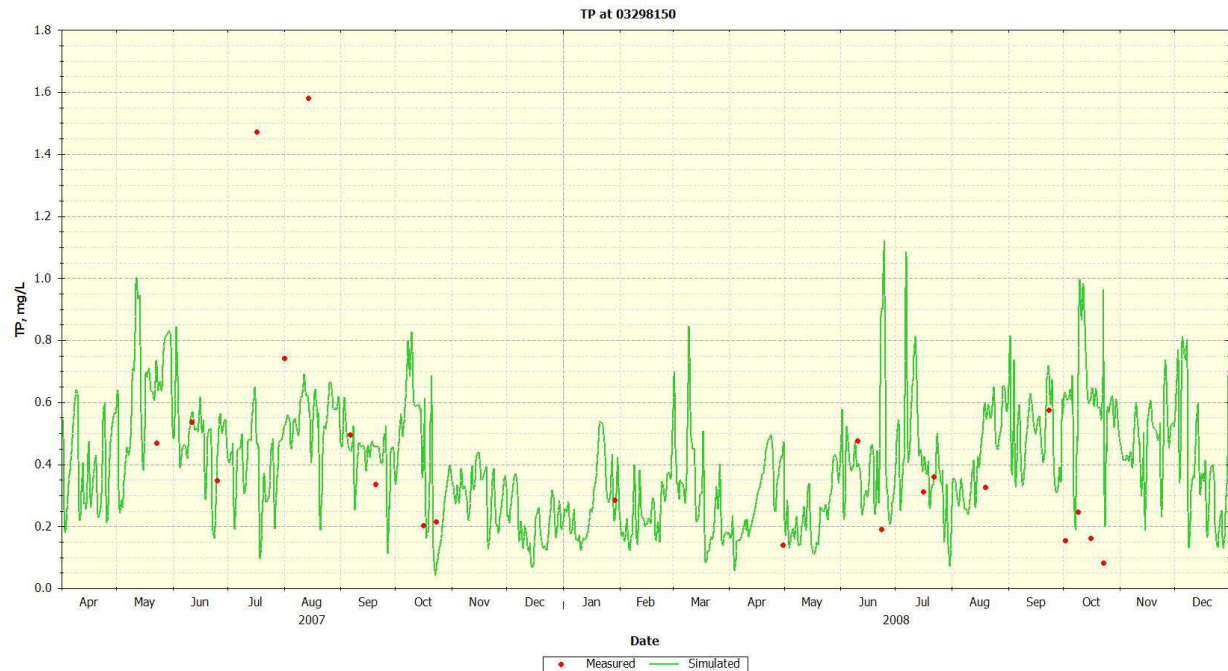


Figure A-204 Modeled vs. Observed TP (mg/L) at 03298150

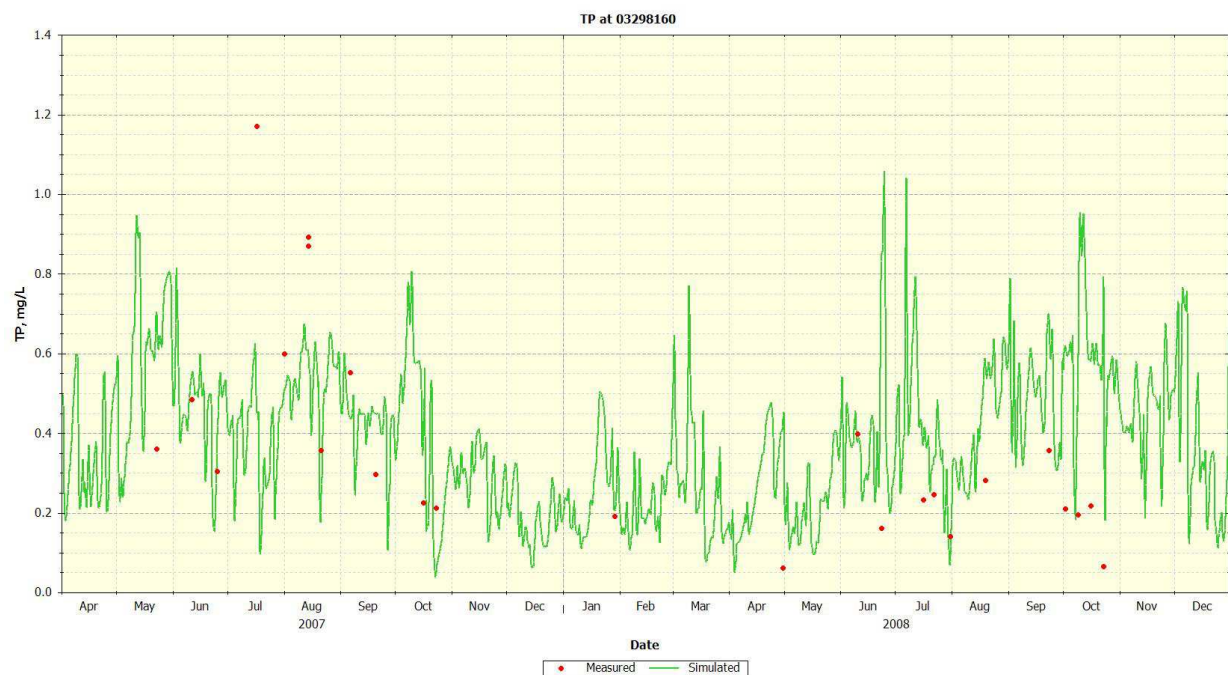


Figure A-205 Modeled vs. Observed TP (mg/L) at 03298160

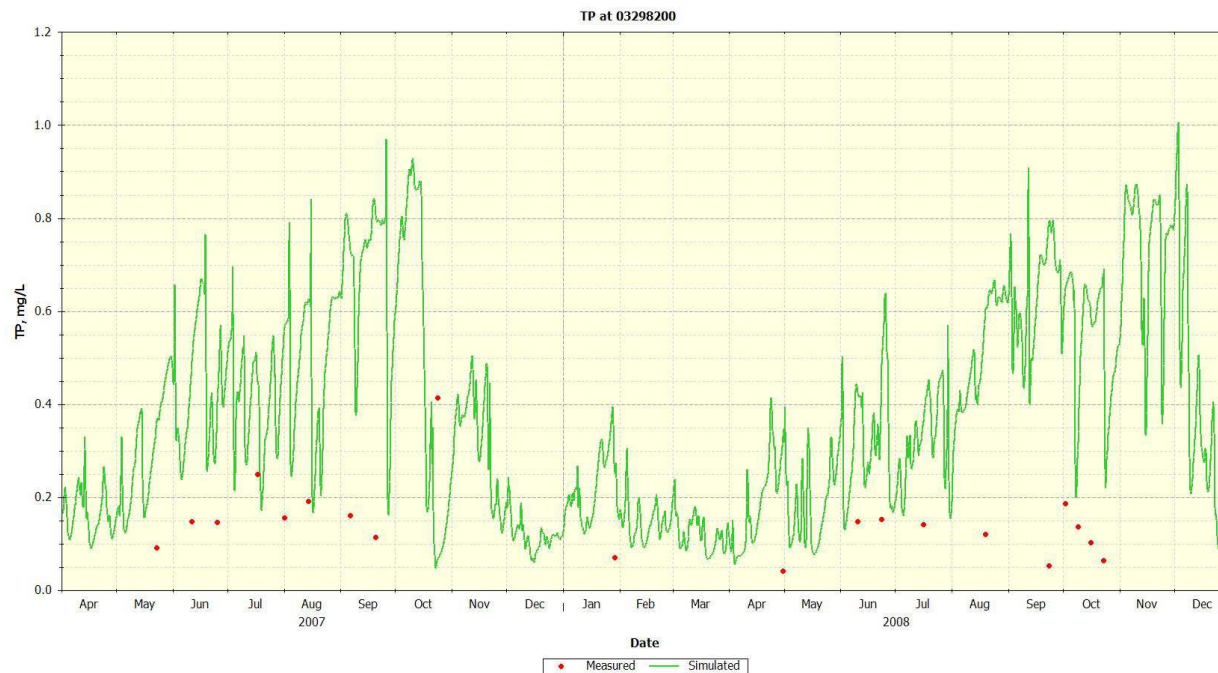


Figure A-206 Modeled vs. Observed TP (mg/L) at 03298200

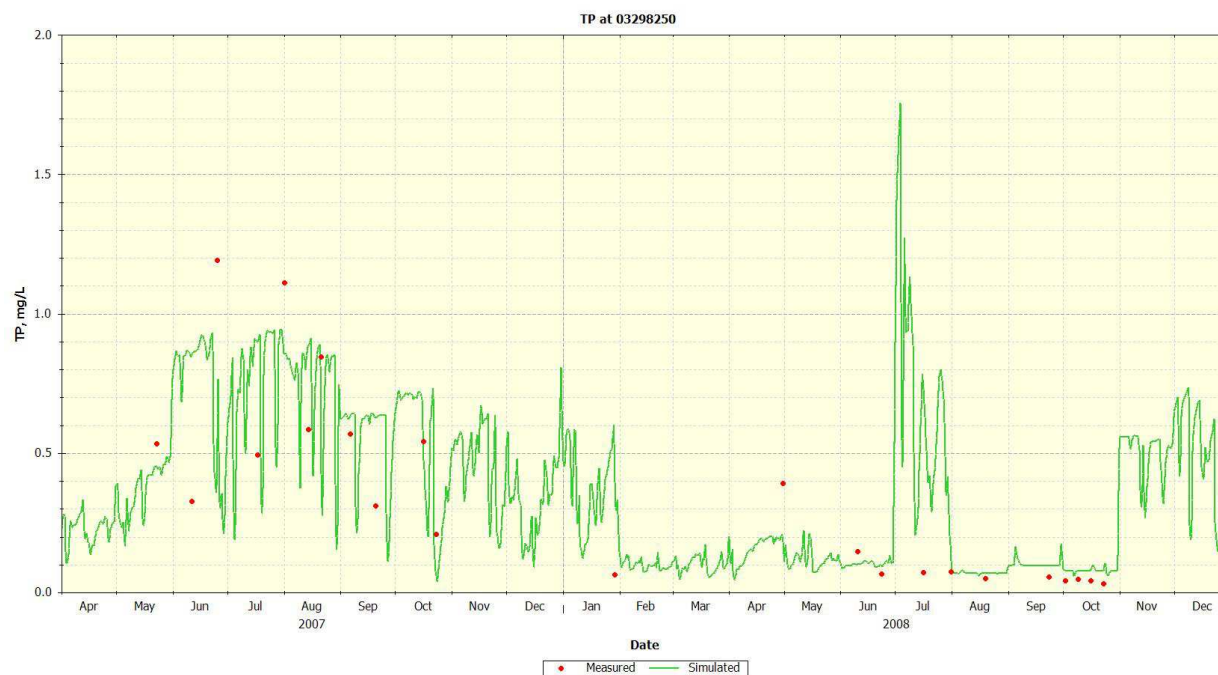


Figure A-207 Modeled vs. Observed TP (mg/L) at 03298250

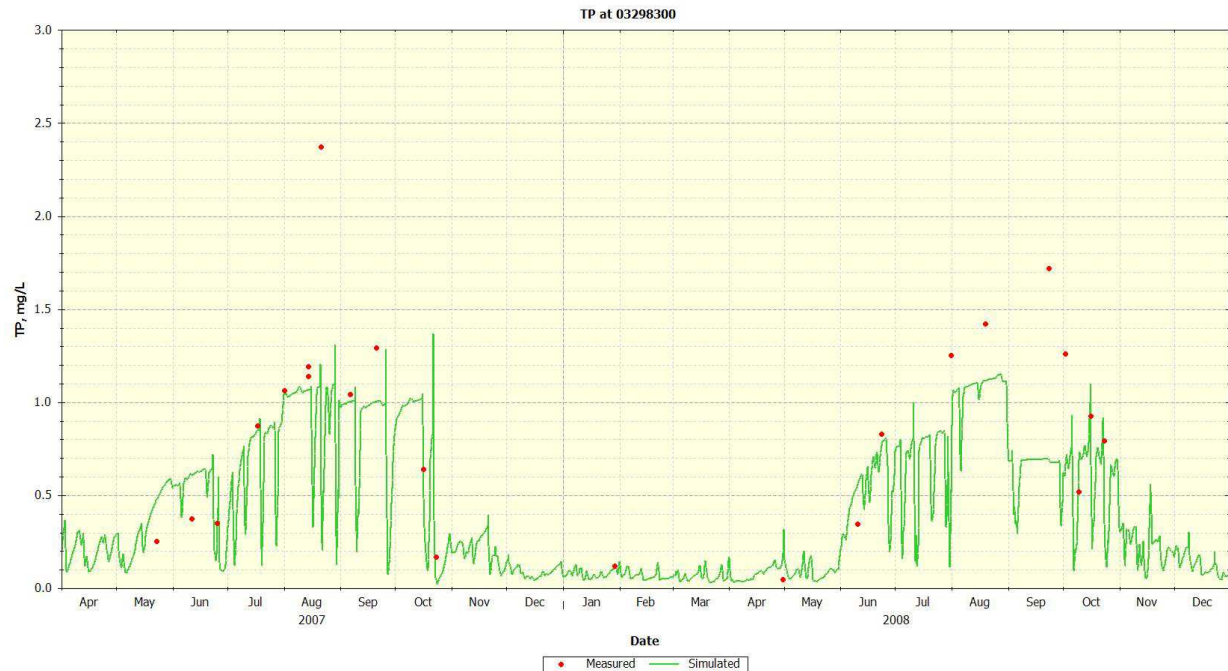


Figure A-208 Modeled vs. Observed TP (mg/L) at 03298300

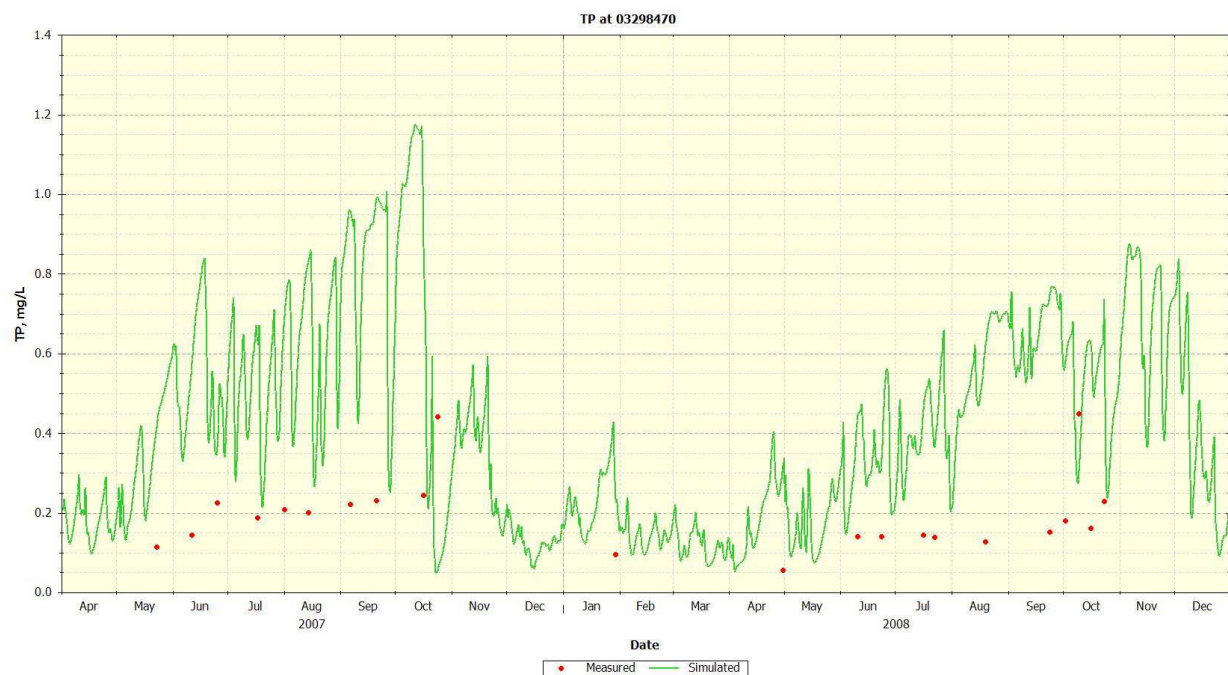
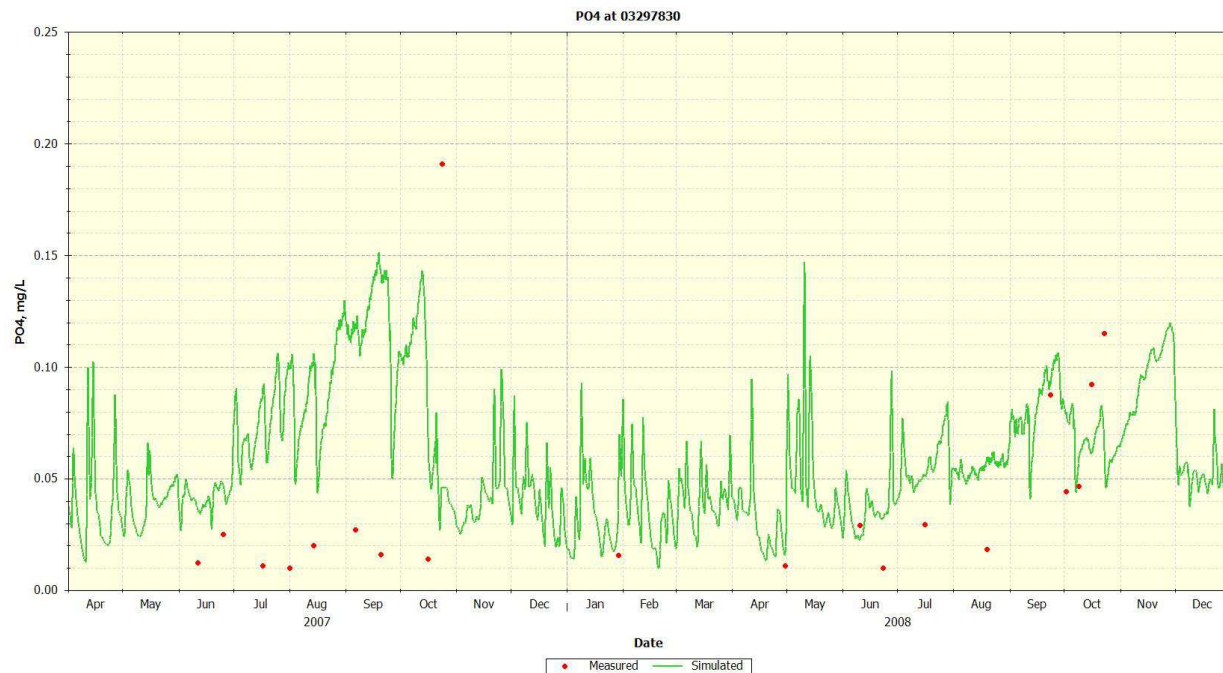
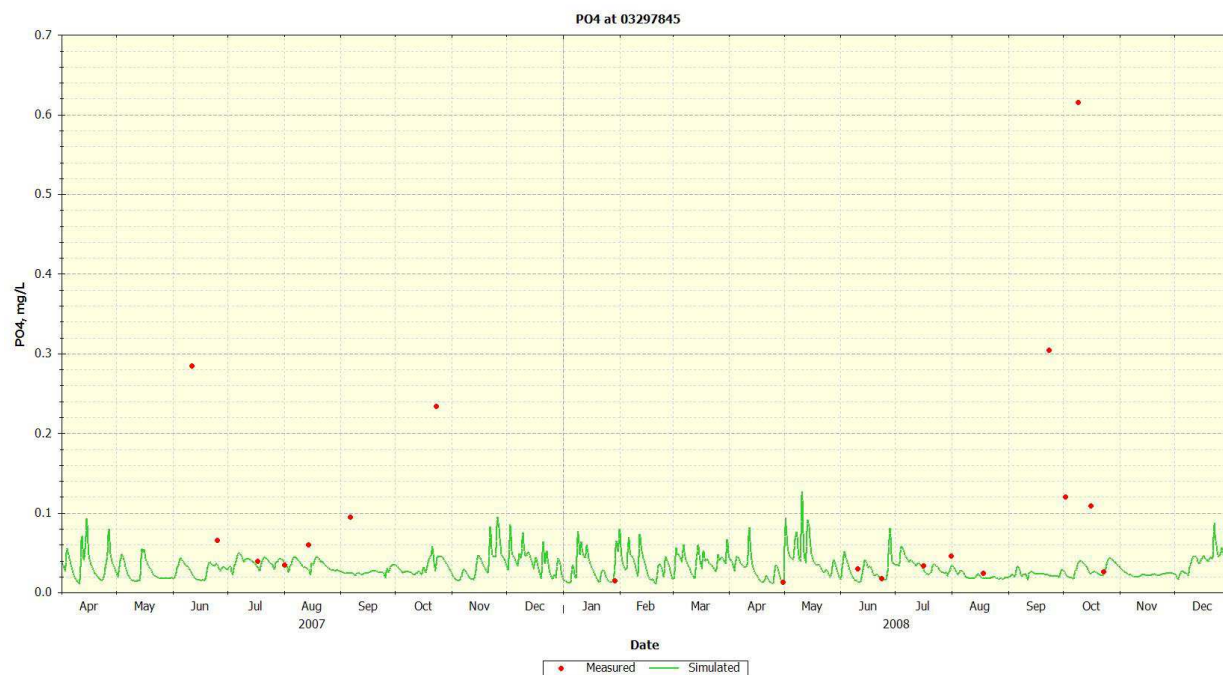
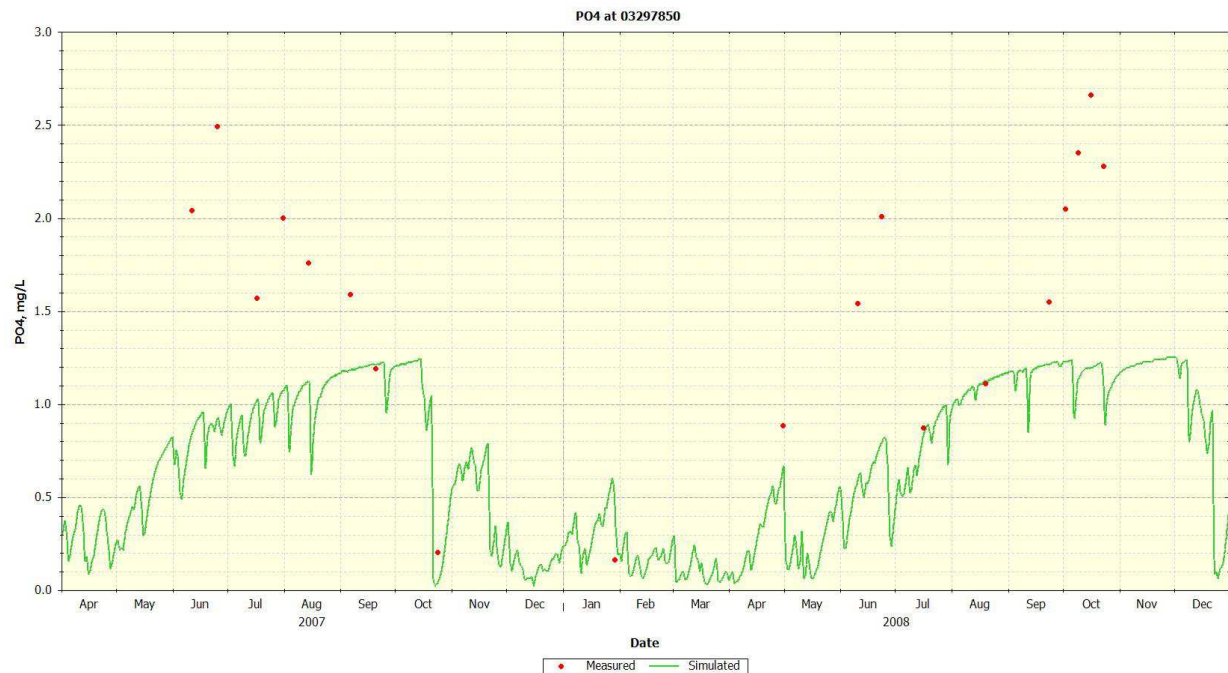
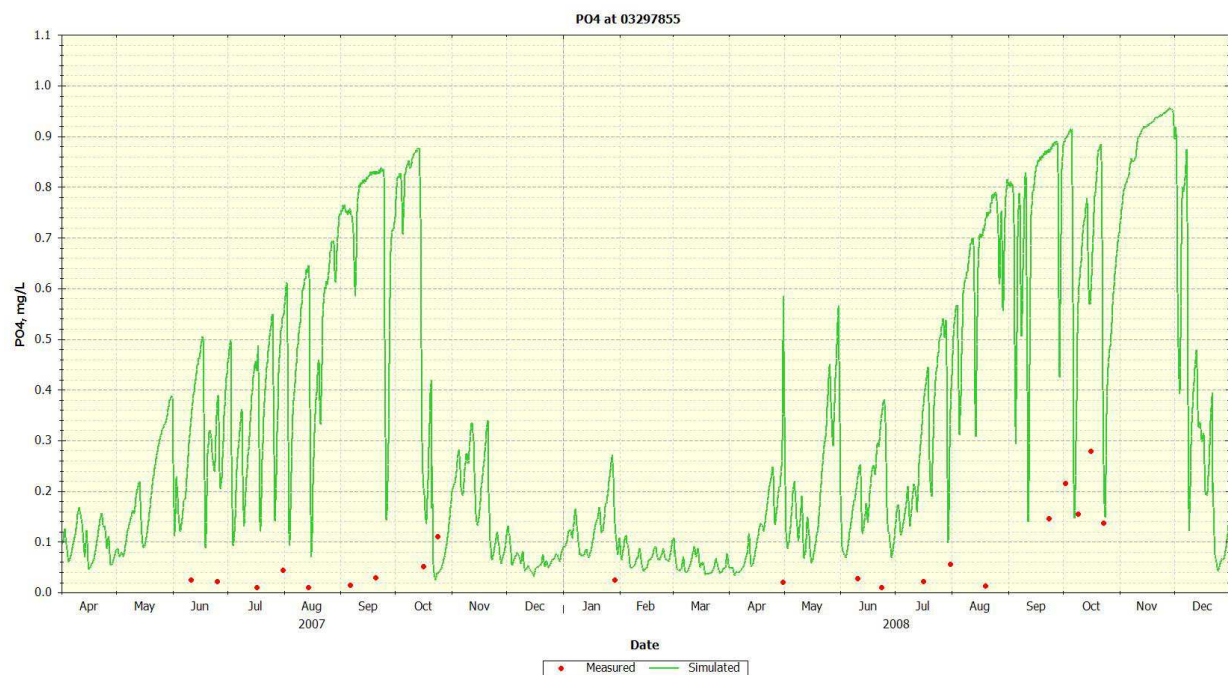
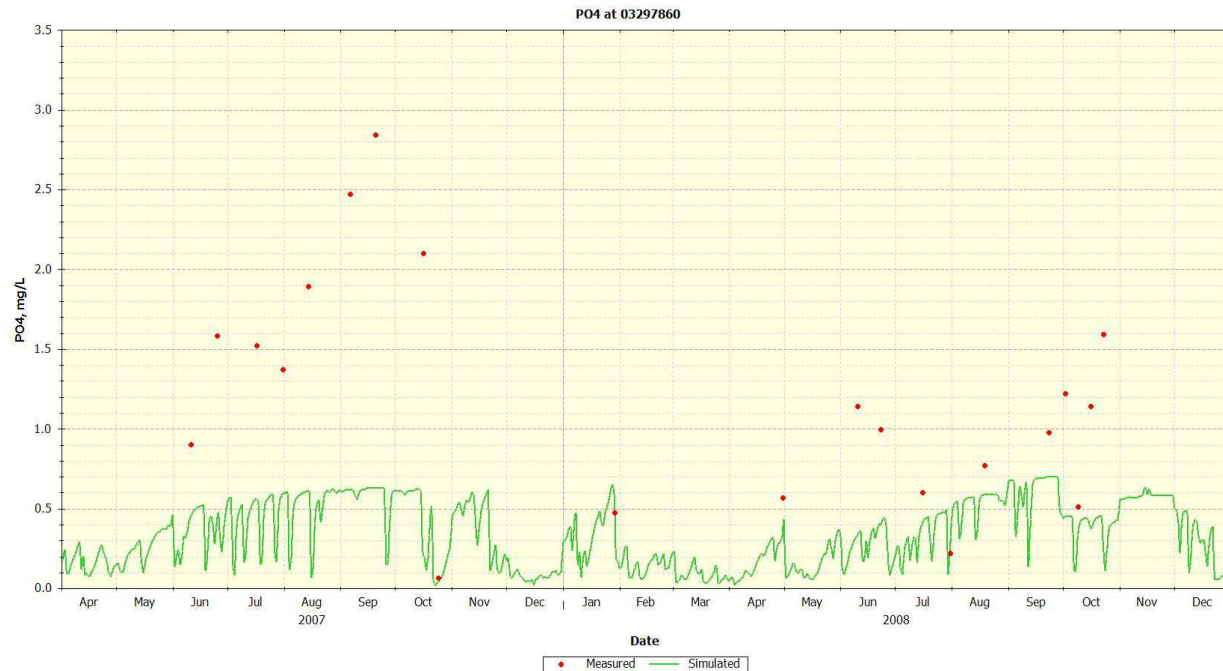
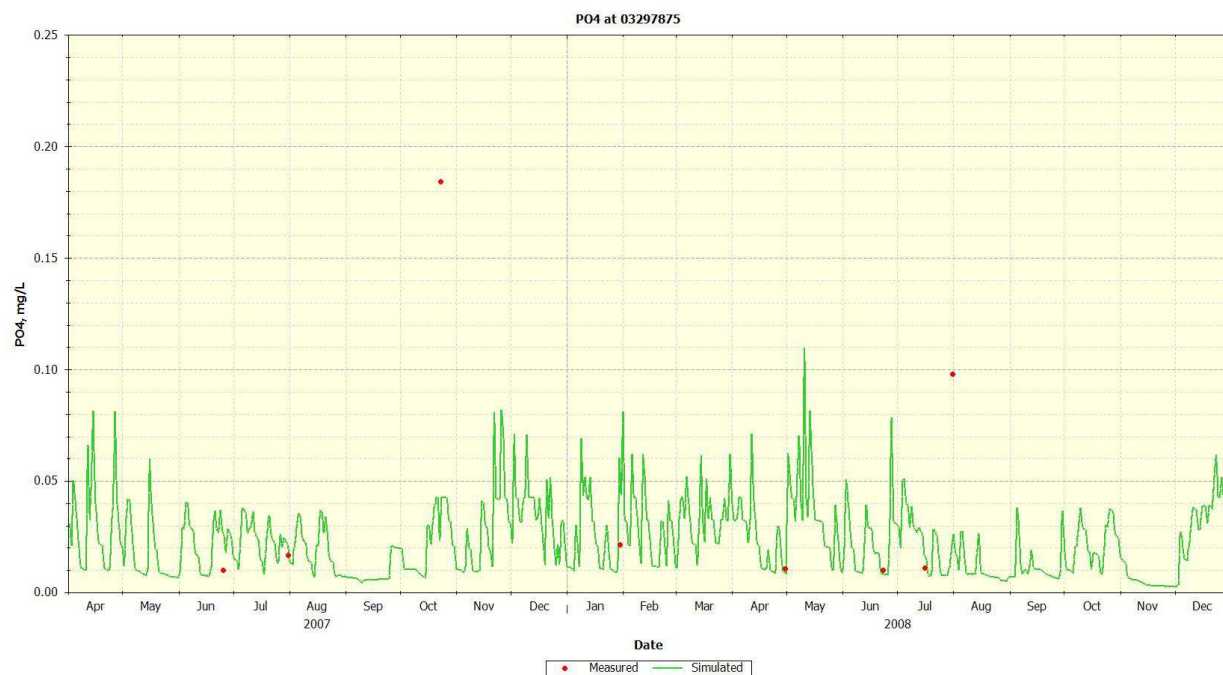
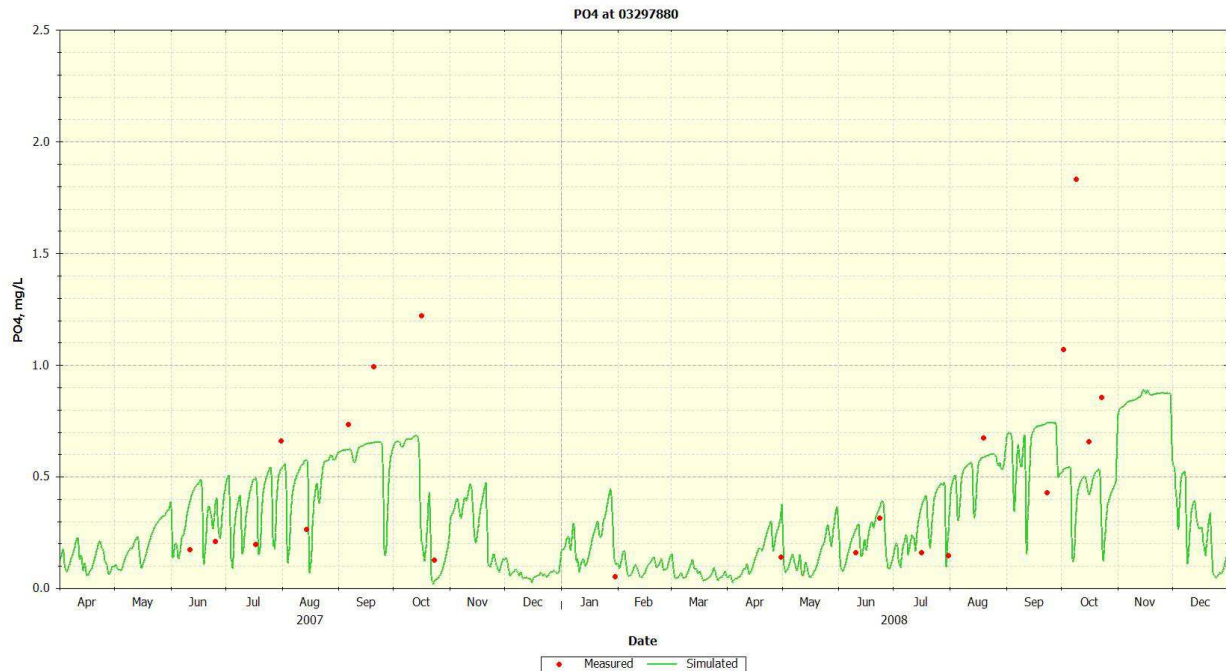
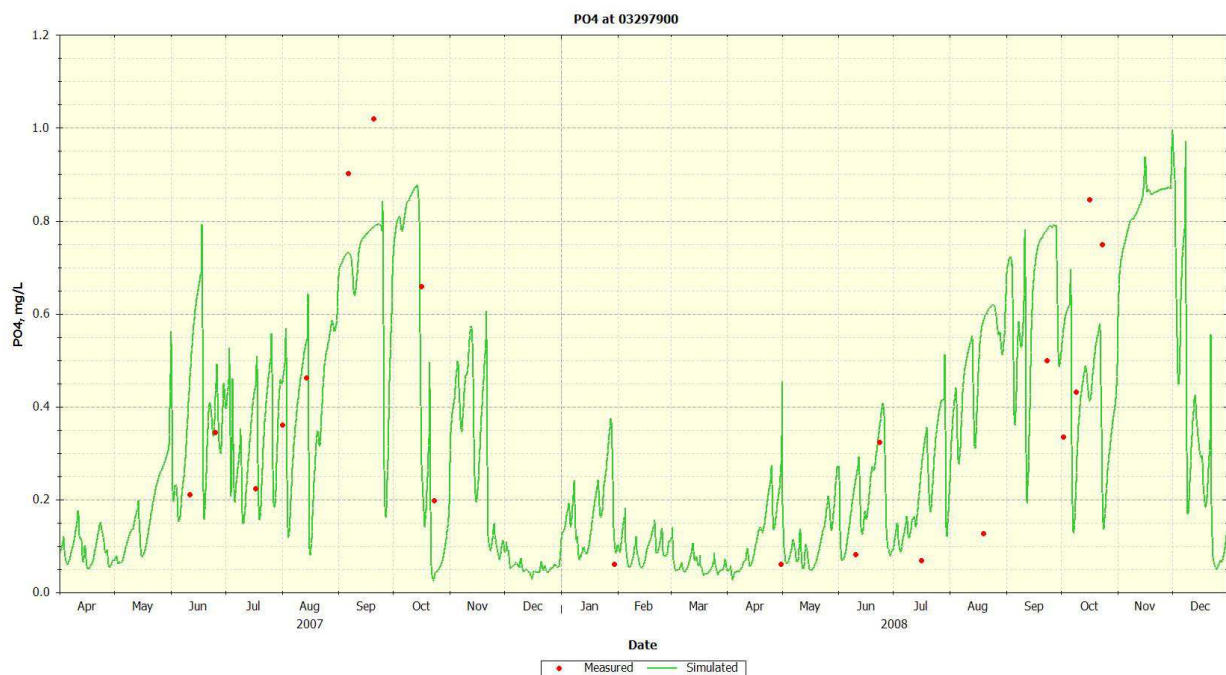


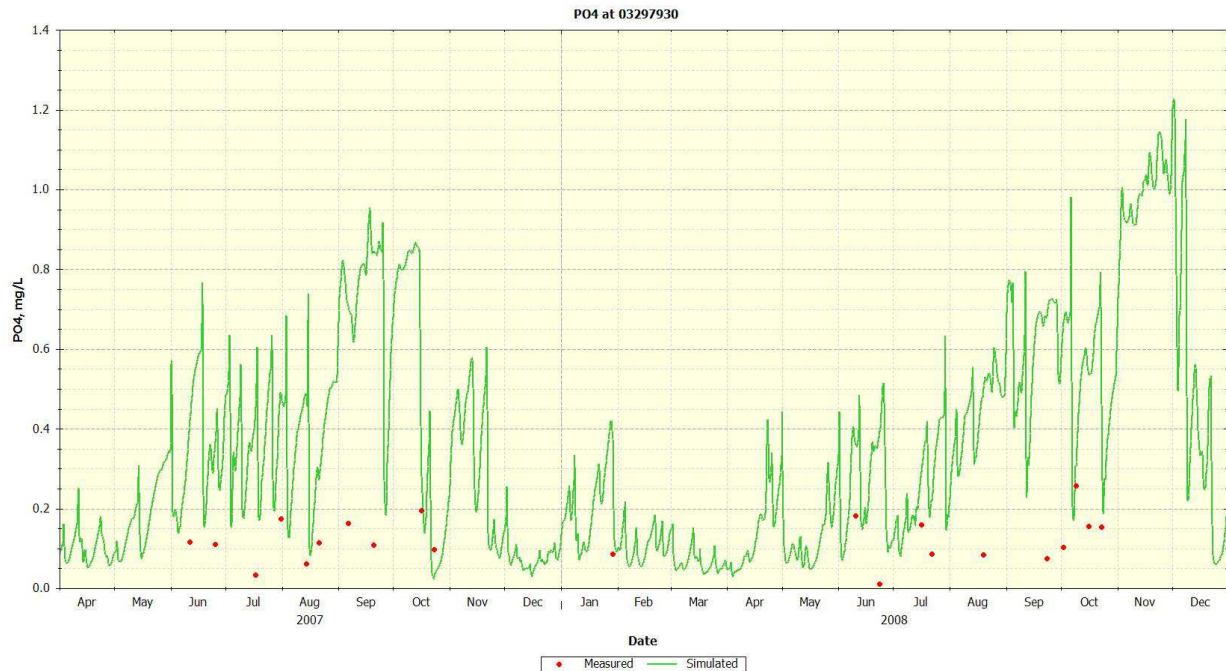
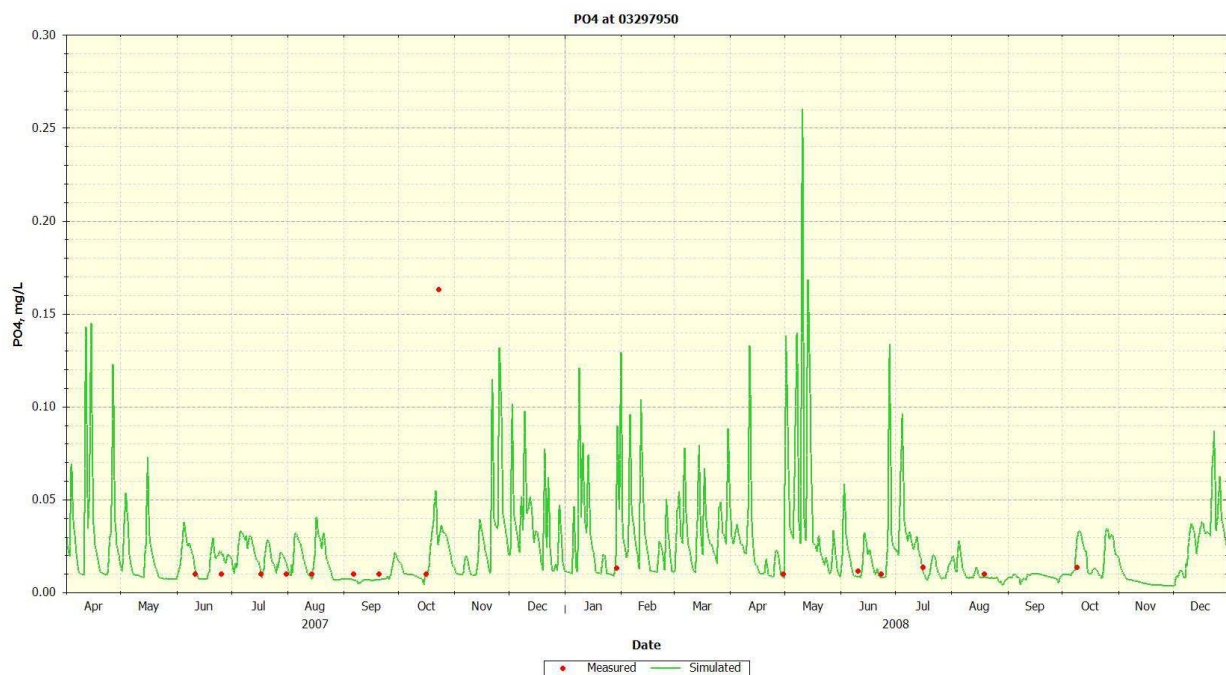
Figure A-209 Modeled vs. Observed TP (mg/L) at 03298470

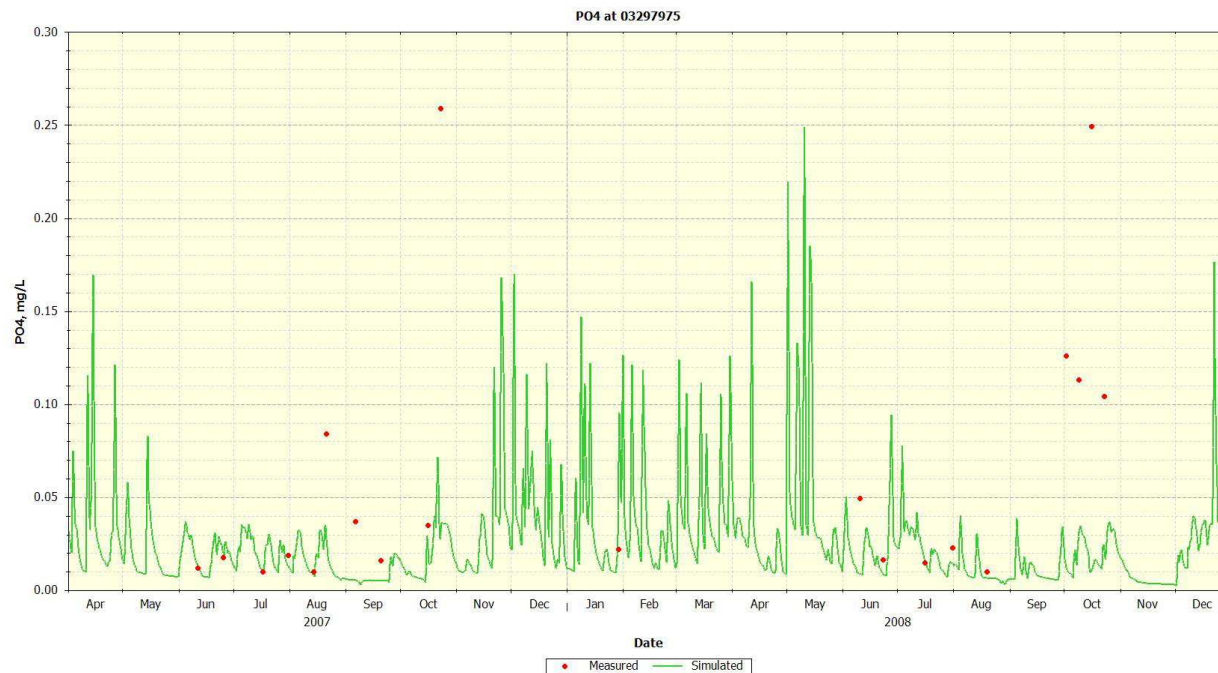
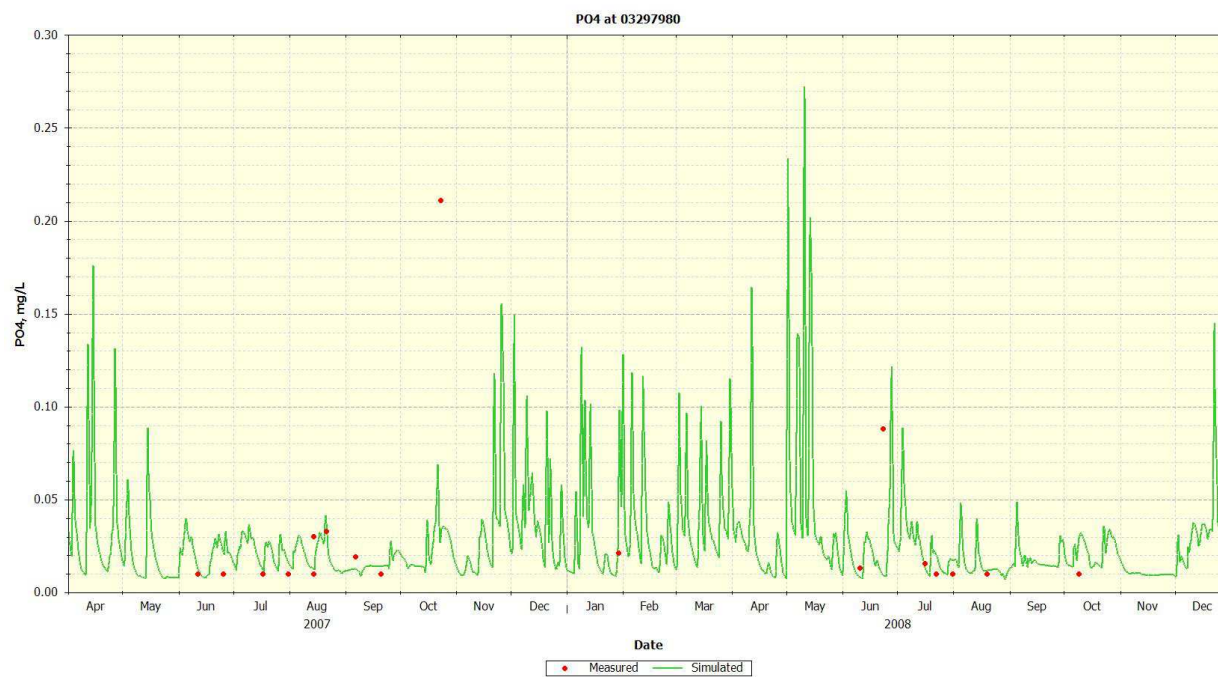
Figure A-210 Modeled vs. Observed PO₄ (mg/L) at 03297830Figure A-211 Modeled vs. Observed PO₄ (mg/L) at 03297845

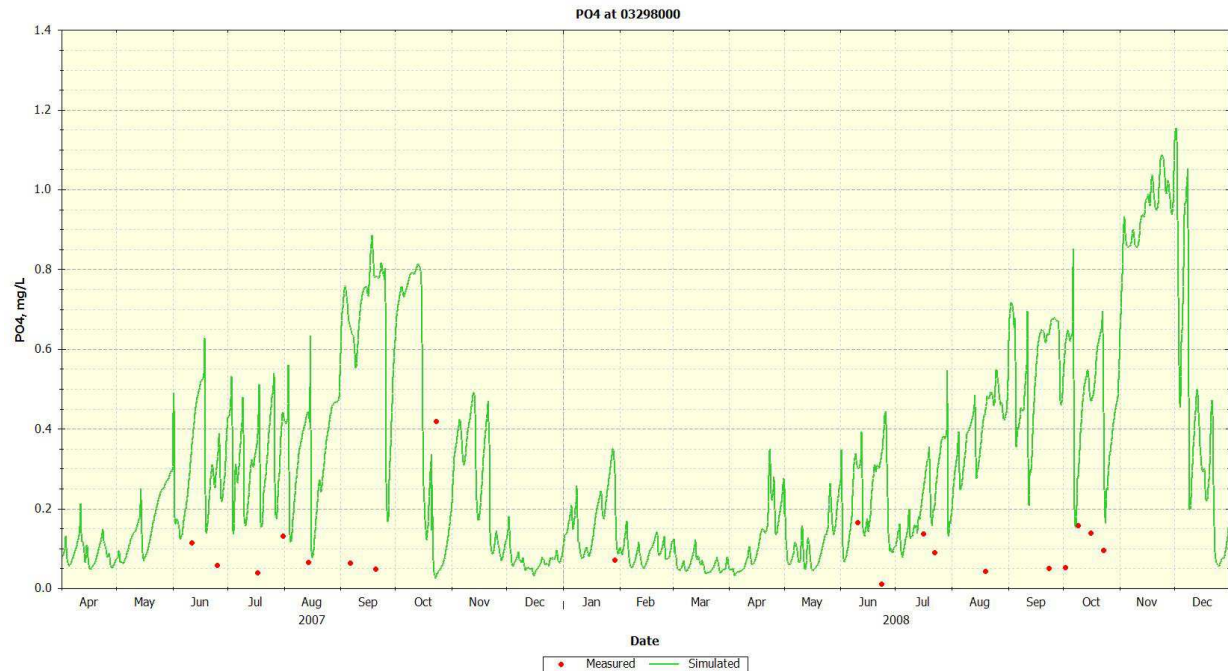
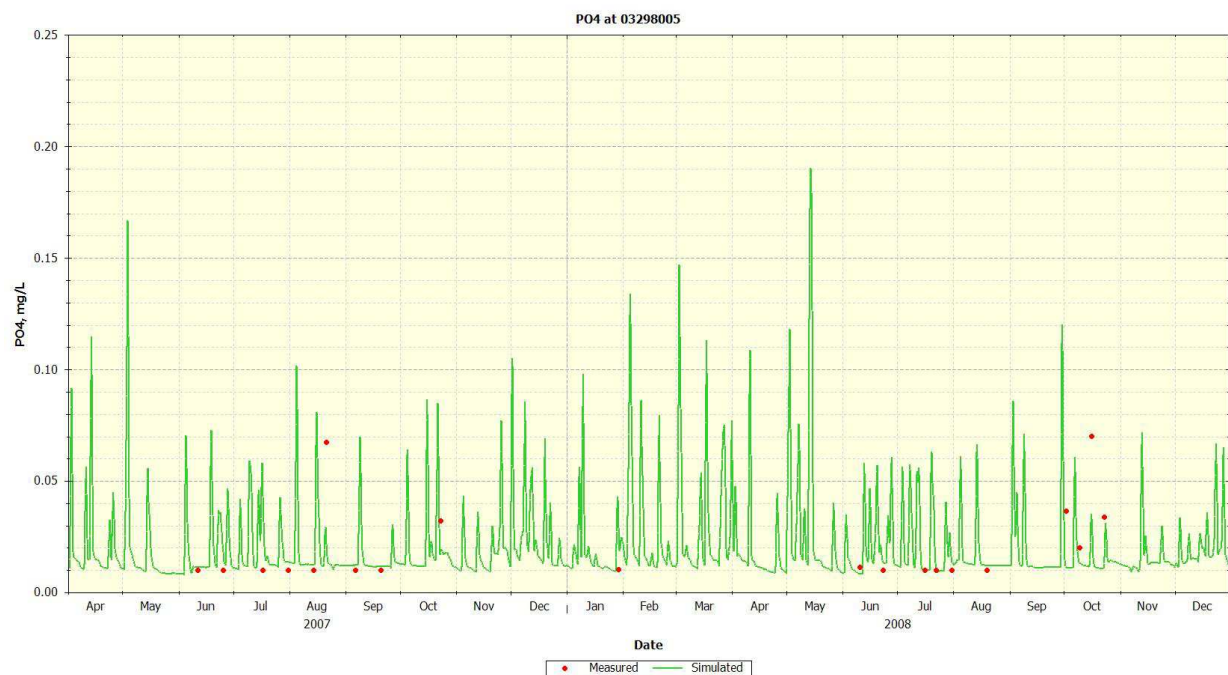
Figure A-212 Modeled vs. Observed PO₄ (mg/L) at 03297850Figure A-213 Modeled vs. Observed PO₄ (mg/L) at 03297855

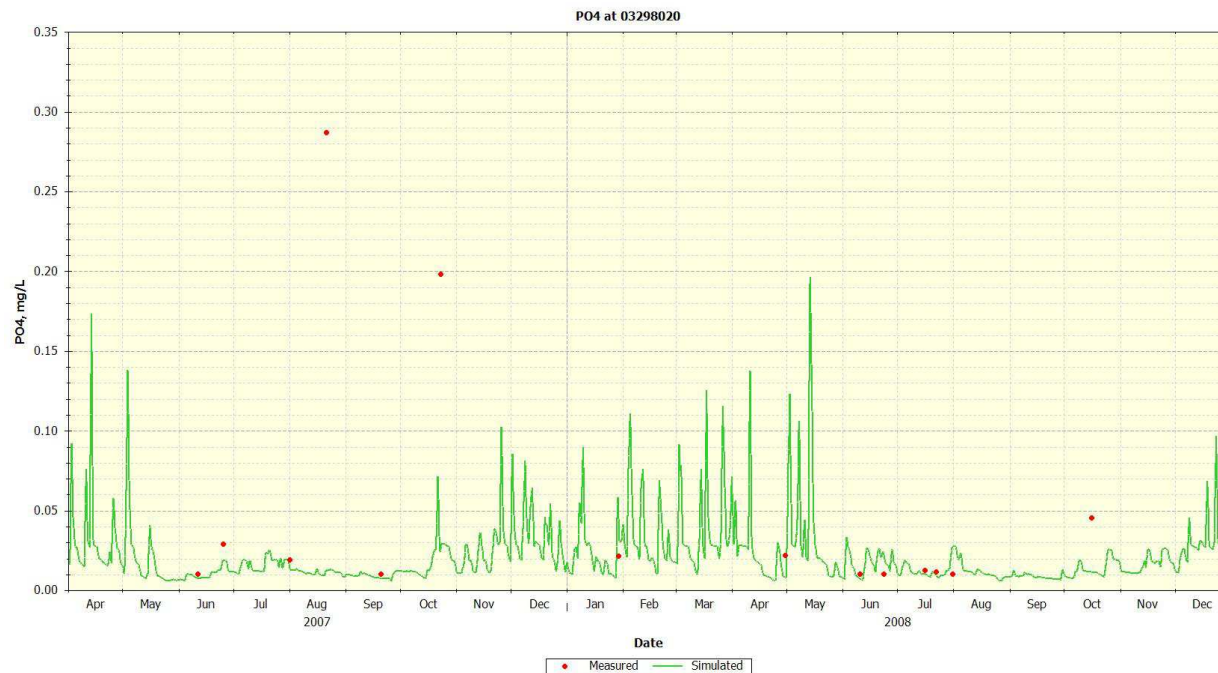
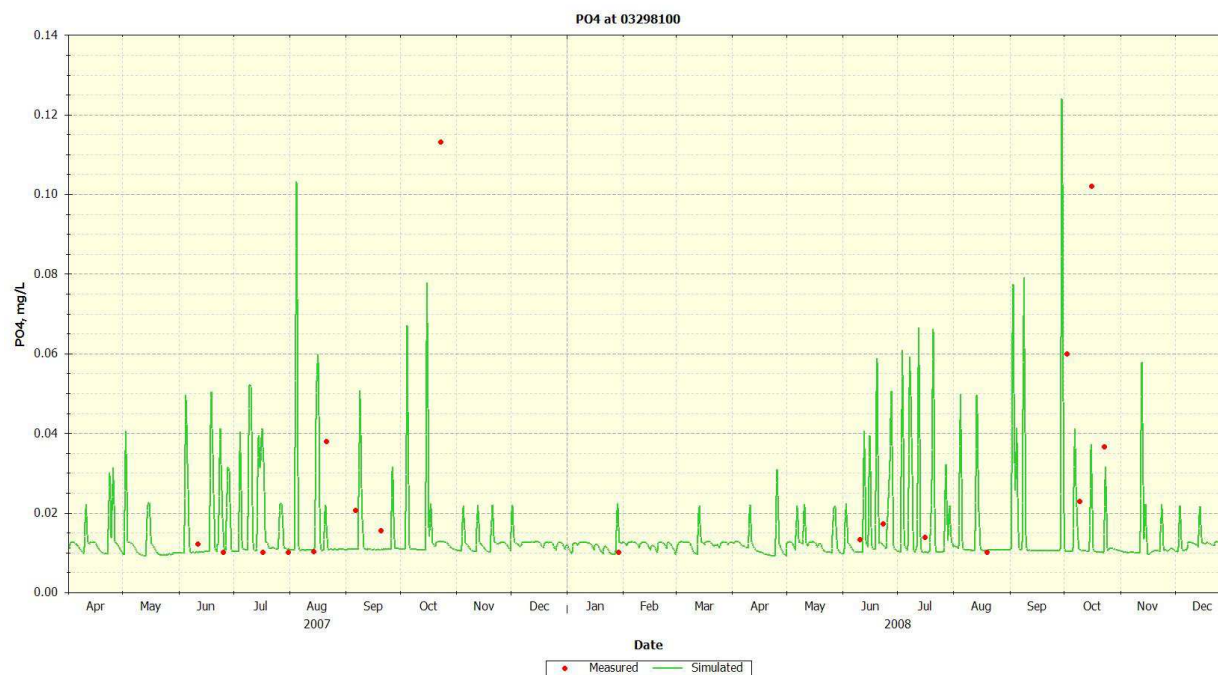
Figure A-214 Modeled vs. Observed PO₄ (mg/L) at 03297860Figure A-215 Modeled vs. Observed PO₄ (mg/L) at 03297875

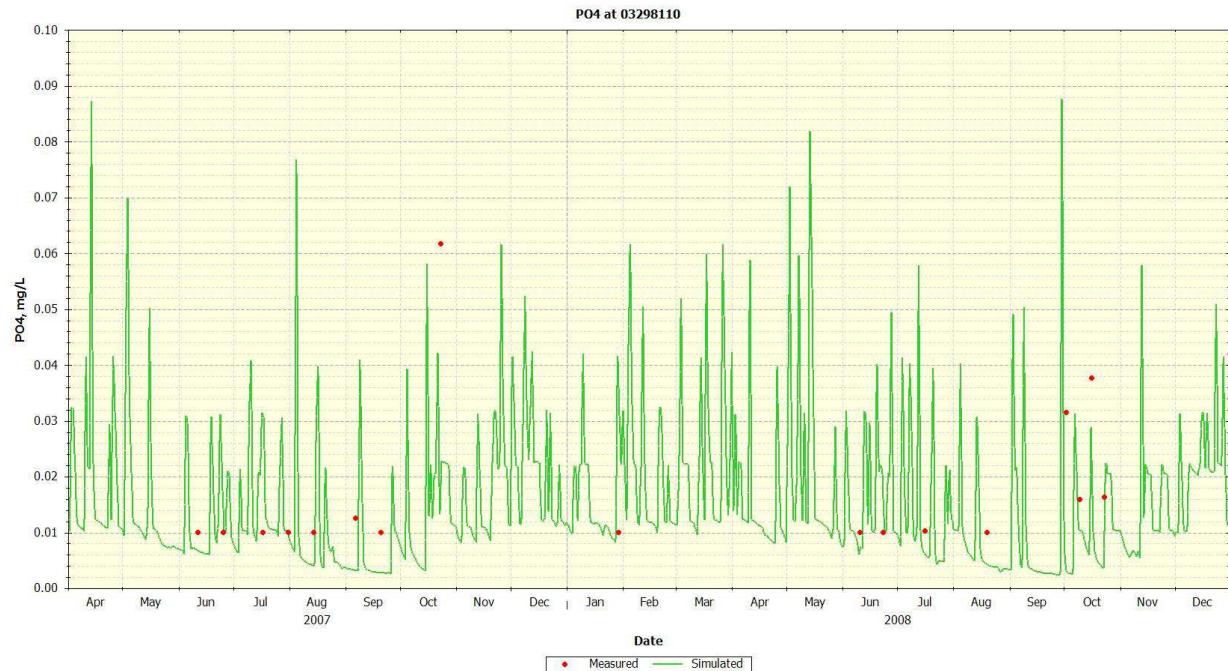
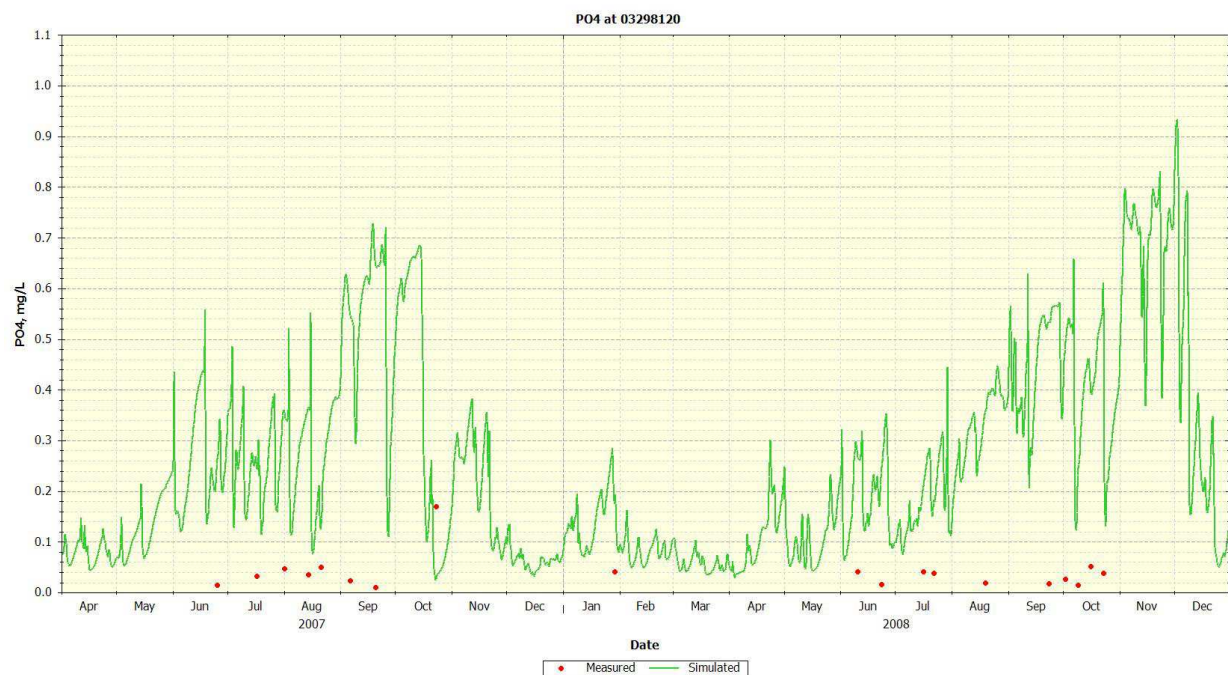
Figure A-216 Modeled vs. Observed PO₄ (mg/L) at 03297880Figure A-217 Modeled vs. Observed PO₄ (mg/L) at 03297900

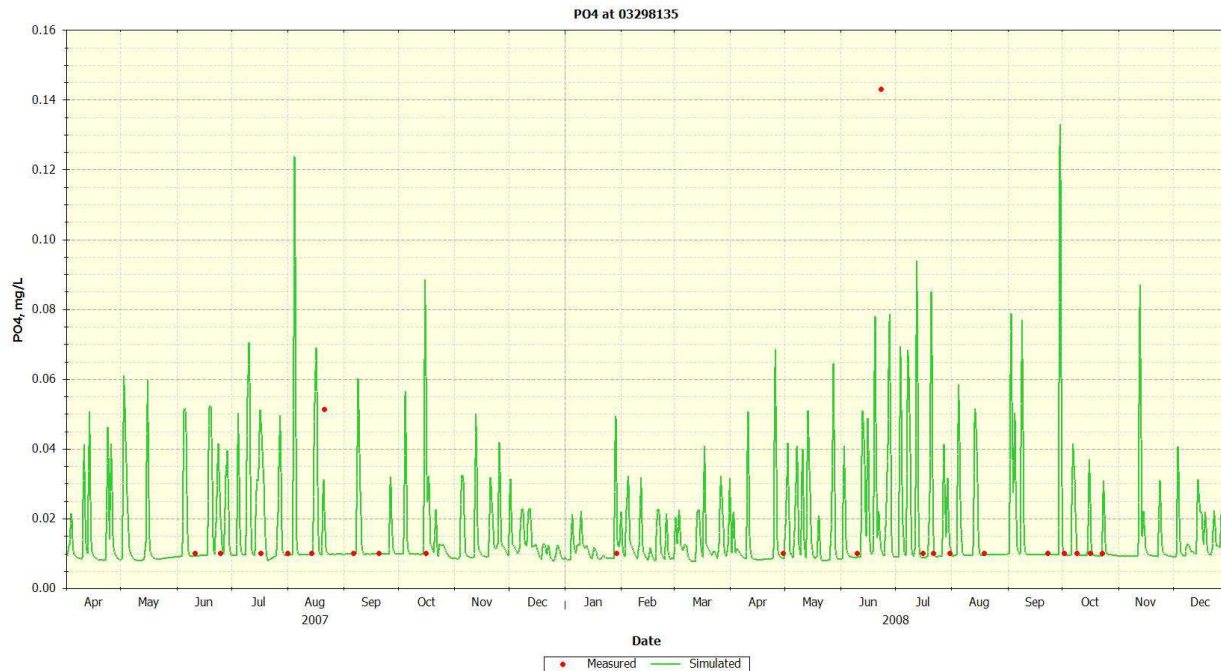
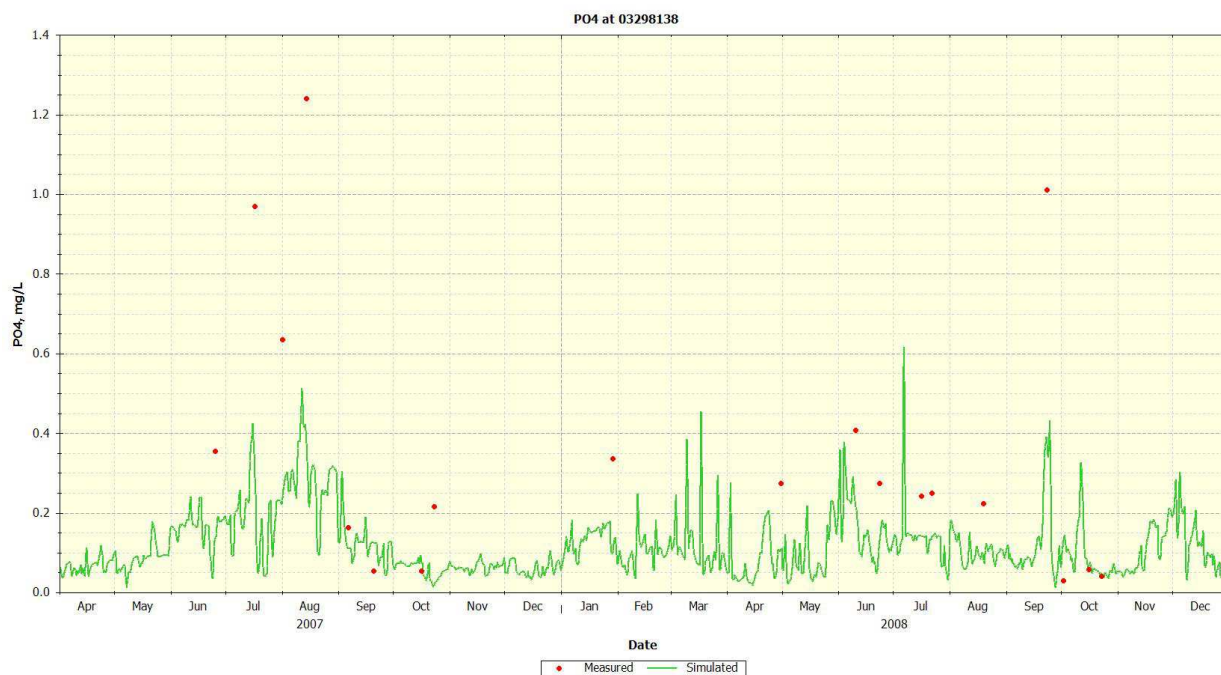
Figure A-218 Modeled vs. Observed PO₄ (mg/L) at 03297930Figure A-219 Modeled vs. Observed PO₄ (mg/L) at 03297950

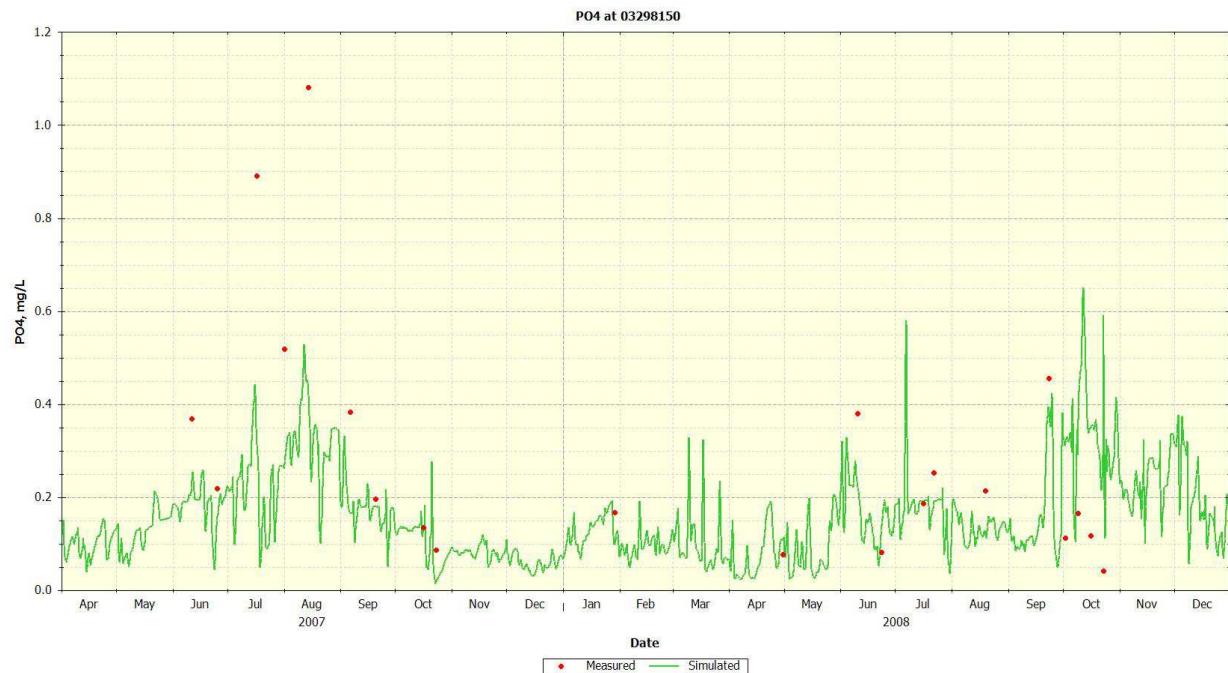
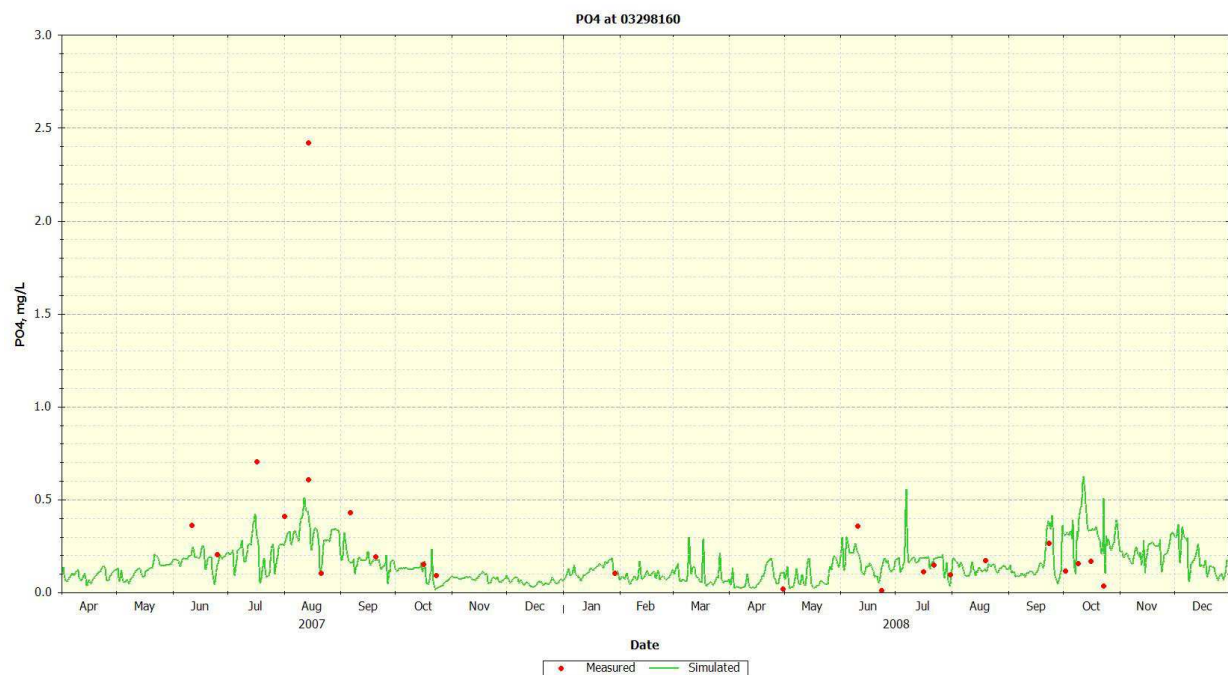
Figure A-220 Modeled vs. Observed PO₄ (mg/L) at 03297975Figure A-221 Modeled vs. Observed PO₄ (mg/L) at 03297980

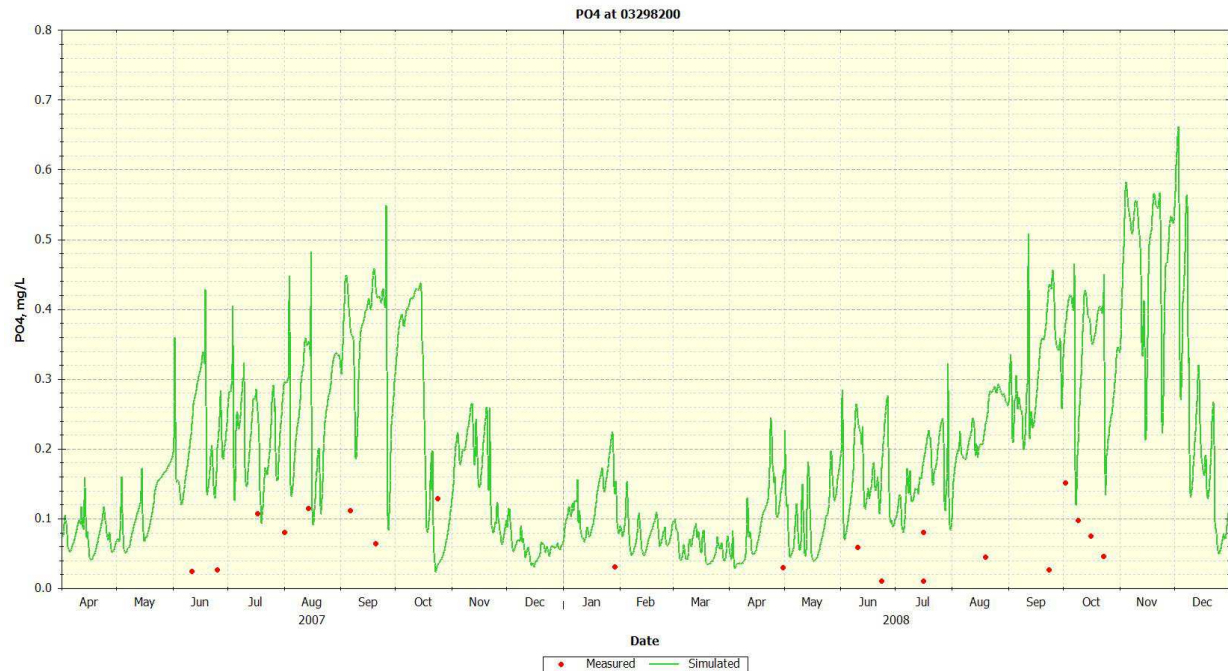
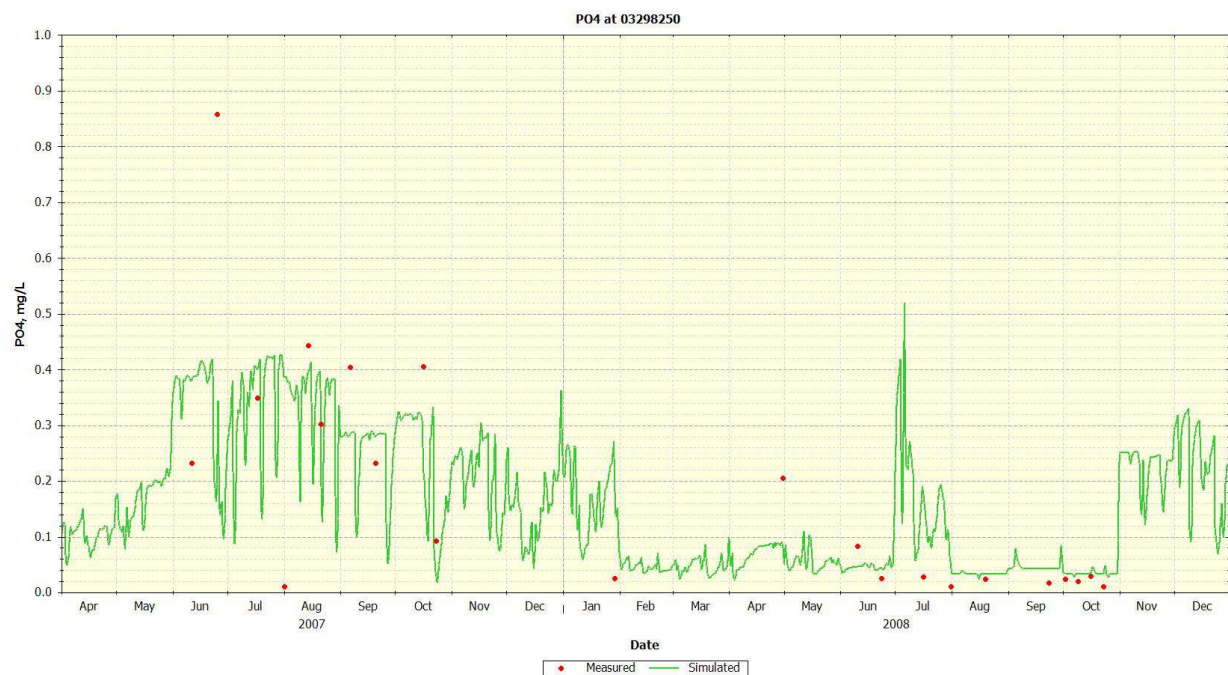
Figure A-222 Modeled vs. Observed PO₄ (mg/L) at 03298000Figure A-223 Modeled vs. Observed PO₄ (mg/L) at 03298005

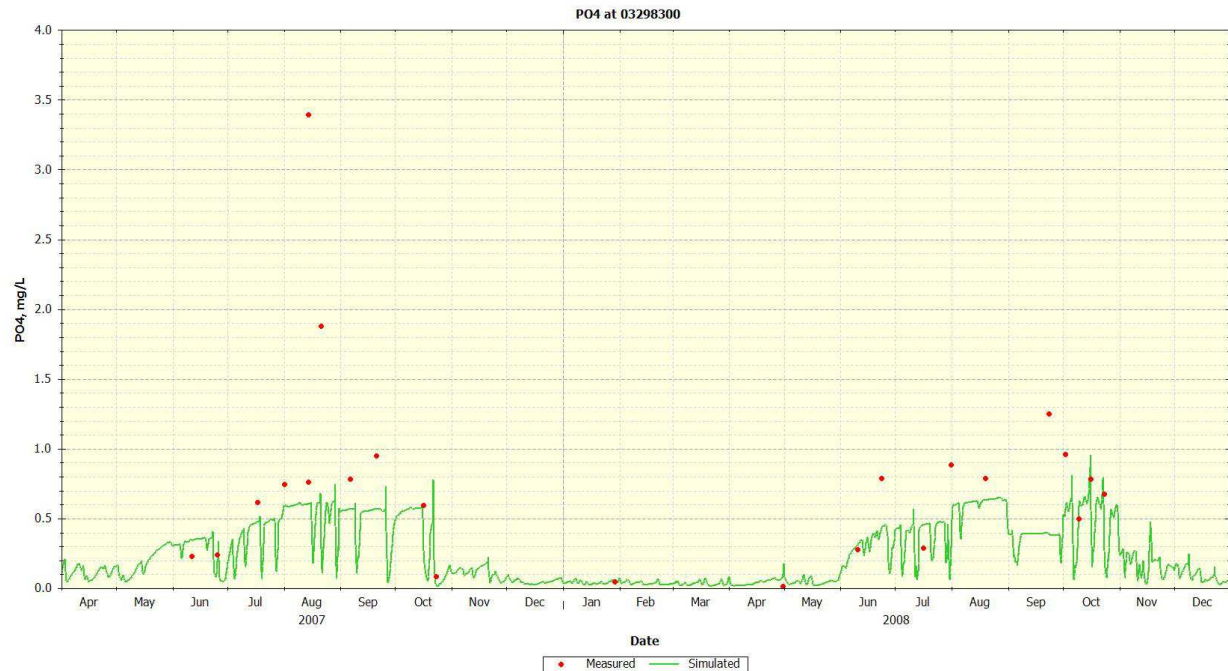
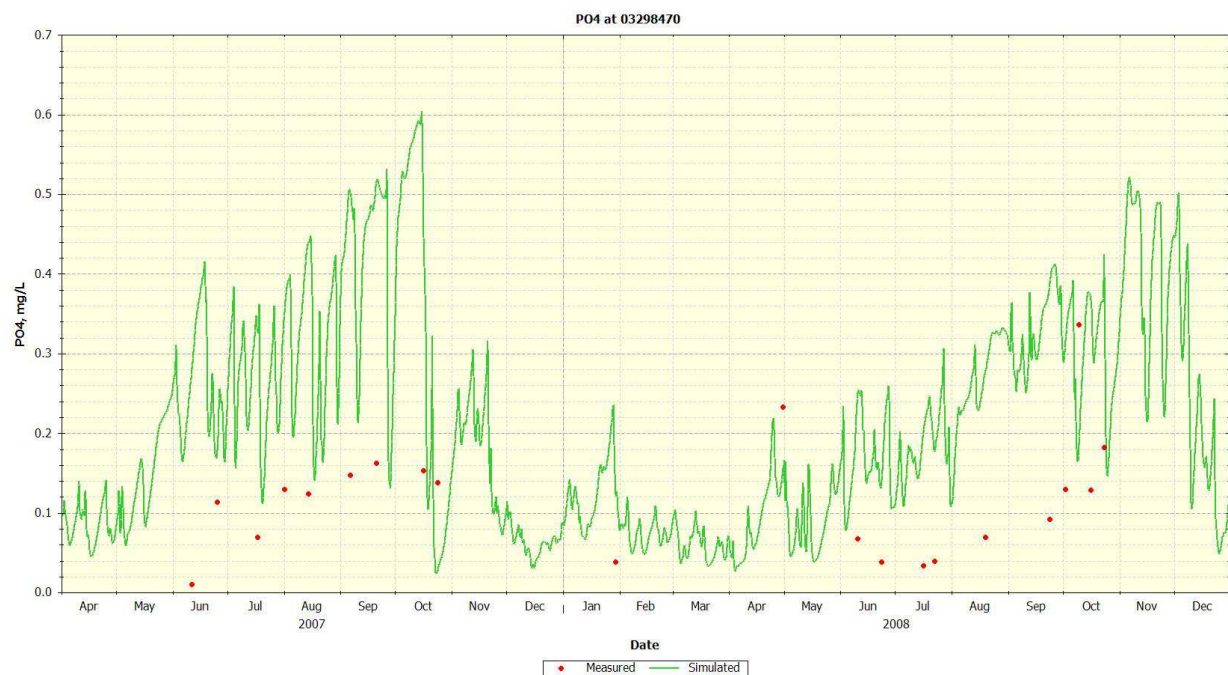
Figure A-224 Modeled vs. Observed PO₄ (mg/L) at 03298020Figure A-225 Modeled vs. Observed PO₄ (mg/L) at 03298100

Figure A-226 Modeled vs. Observed PO₄ (mg/L) at 03298110Figure A-227 Modeled vs. Observed PO₄ (mg/L) at 03298120

Figure A-228 Modeled vs. Observed PO₄ (mg/L) at 03298135Figure A-229 Modeled vs. Observed PO₄ (mg/L) at 03298138

Figure A-230 Modeled vs. Observed PO₄ (mg/L) at 03298150Figure A-231 Modeled vs. Observed PO₄ (mg/L) at 03298160

Figure A-232 Modeled vs. Observed PO₄ (mg/L) at 03298200Figure A-233 Modeled vs. Observed PO₄ (mg/L) at 03298250

Figure A-234 Modeled vs. Observed PO₄ (mg/L) at 03298300Figure A-235 Modeled vs. Observed PO₄ (mg/L) at 03298470

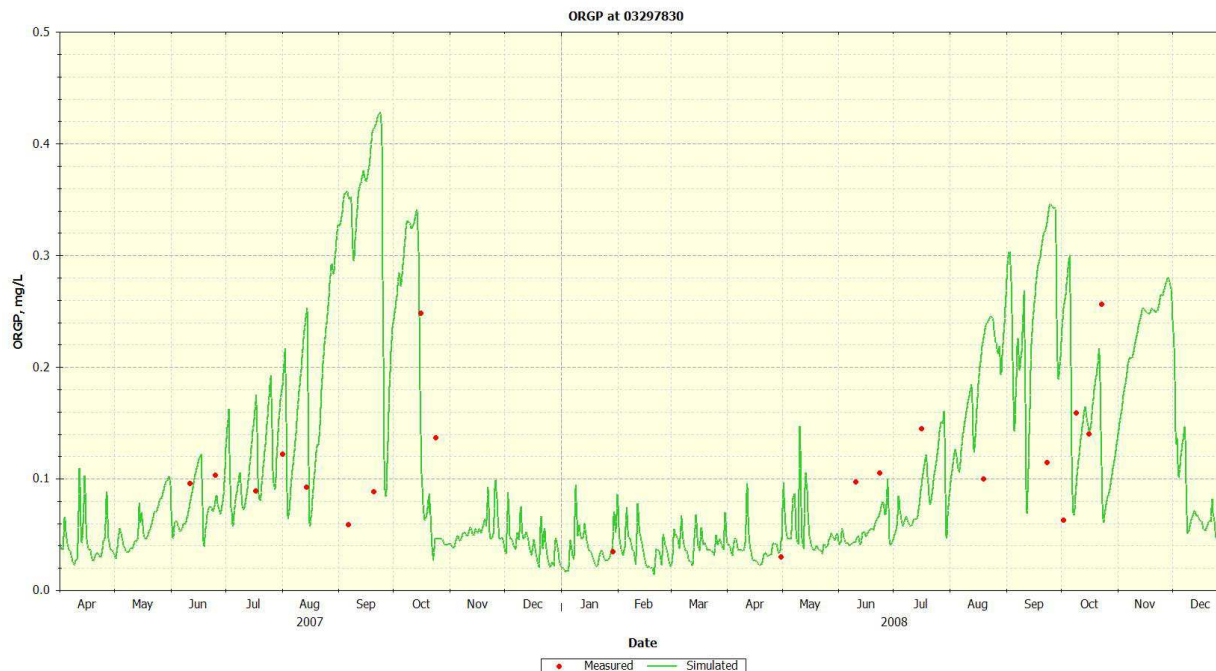


Figure A-236 Modeled vs. Observed ORGP (mg/L) at 03297830

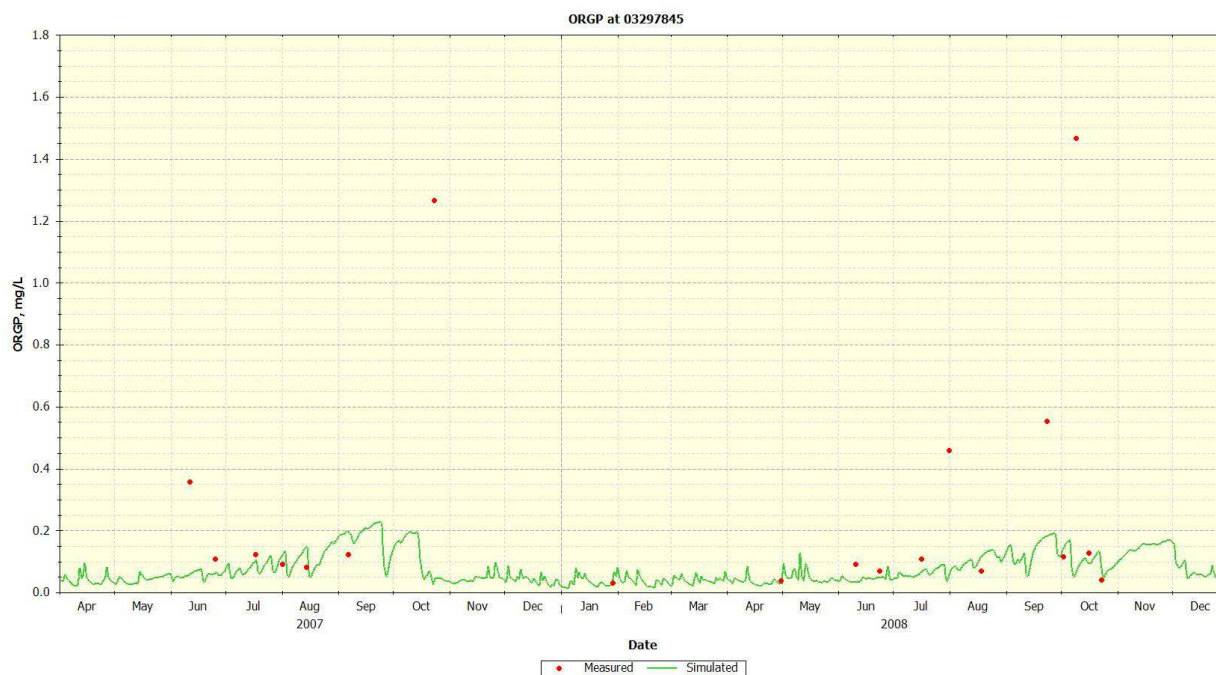


Figure A-237 Modeled vs. Observed ORGP (mg/L) at 03297845

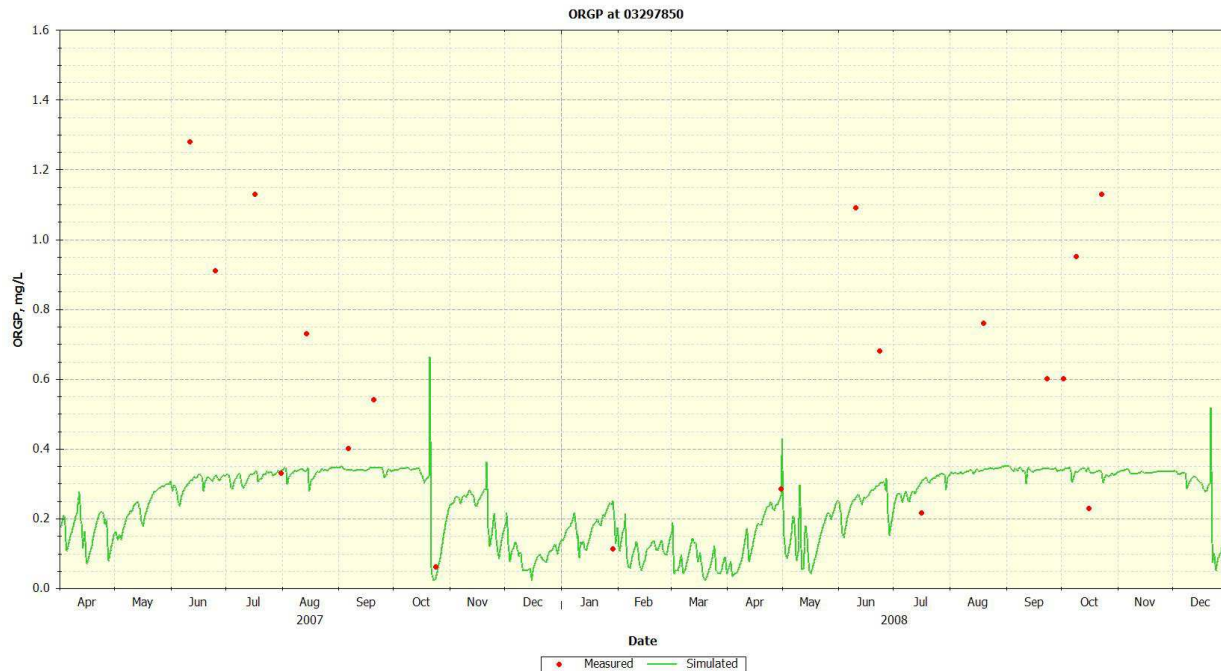


Figure A-238 Modeled vs. Observed ORGP (mg/L) at 03297850

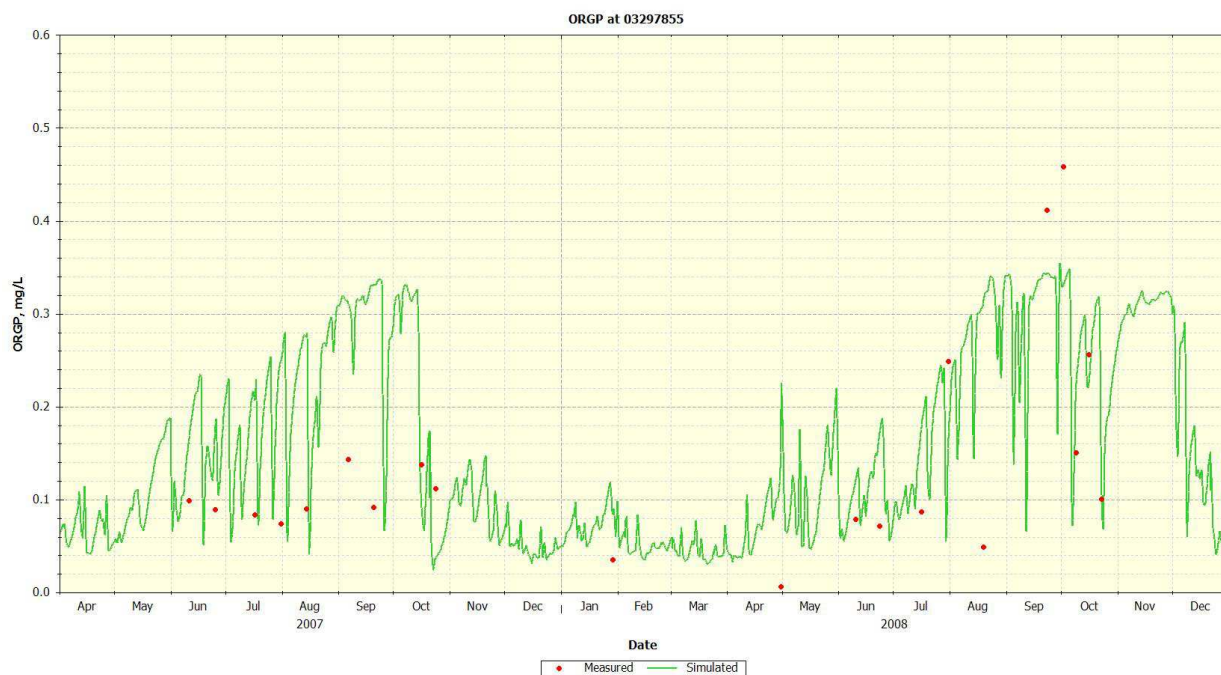


Figure A-239 Modeled vs. Observed ORGP (mg/L) at 03297855

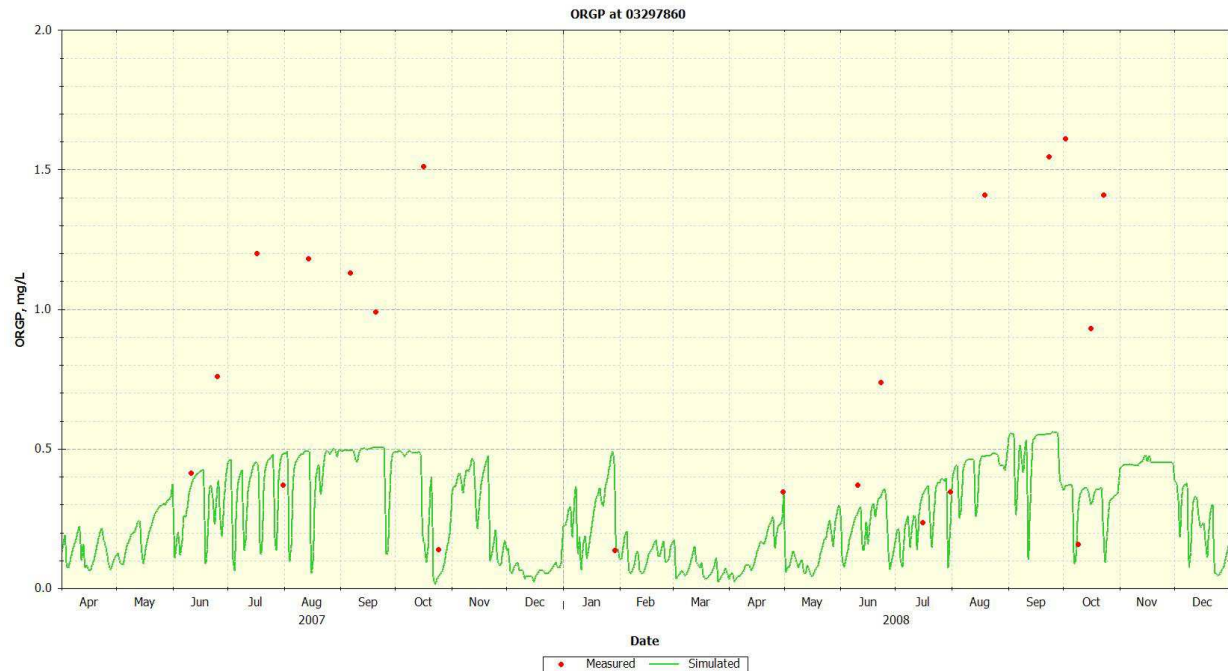


Figure A-240 Modeled vs. Observed ORGP (mg/L) at 03297860

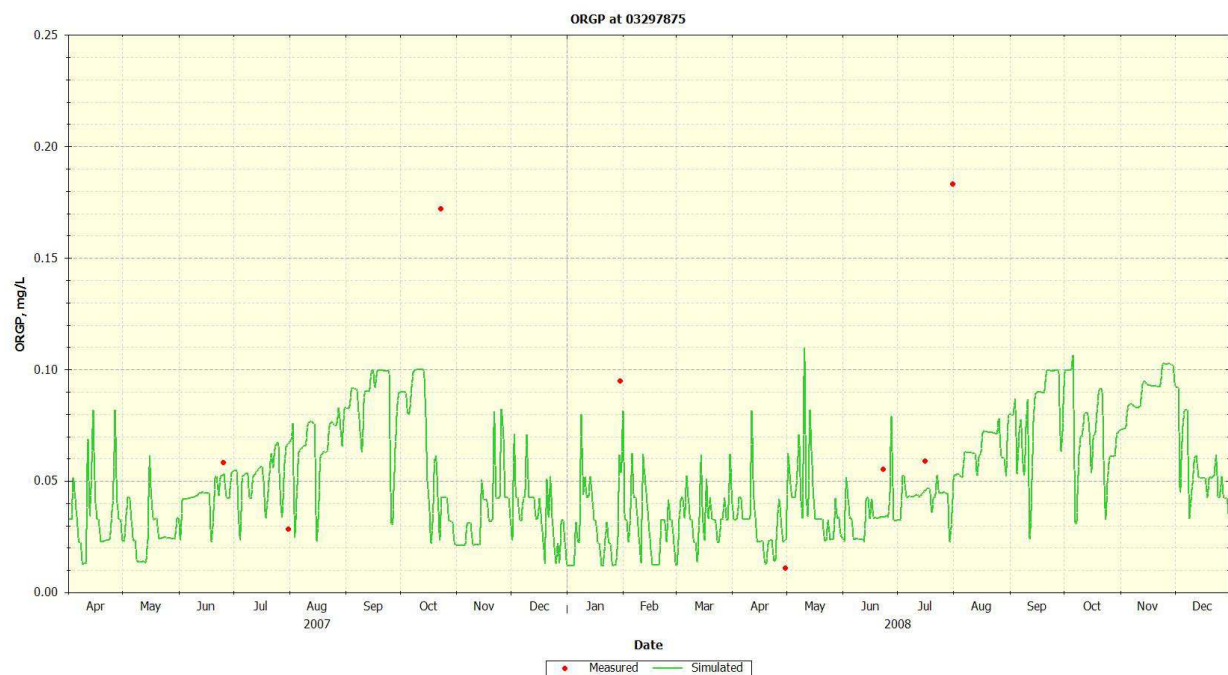


Figure A-241 Modeled vs. Observed ORGP (mg/L) at 03297875

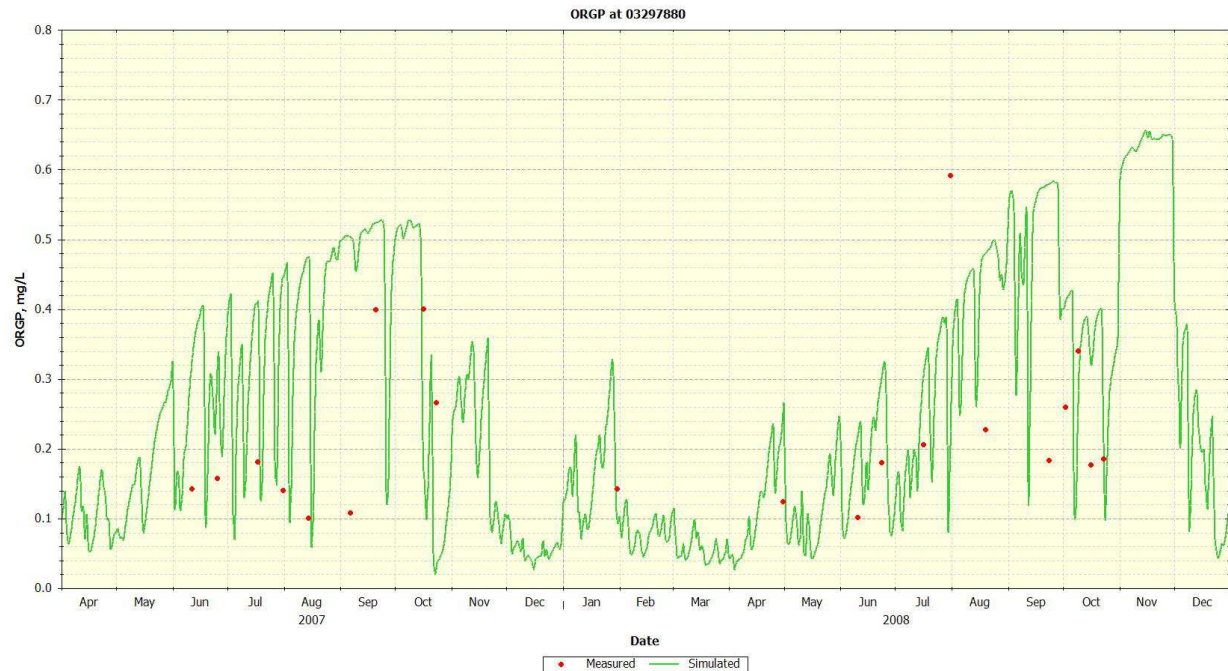


Figure A-242 Modeled vs. Observed ORGP (mg/L) at 03297880

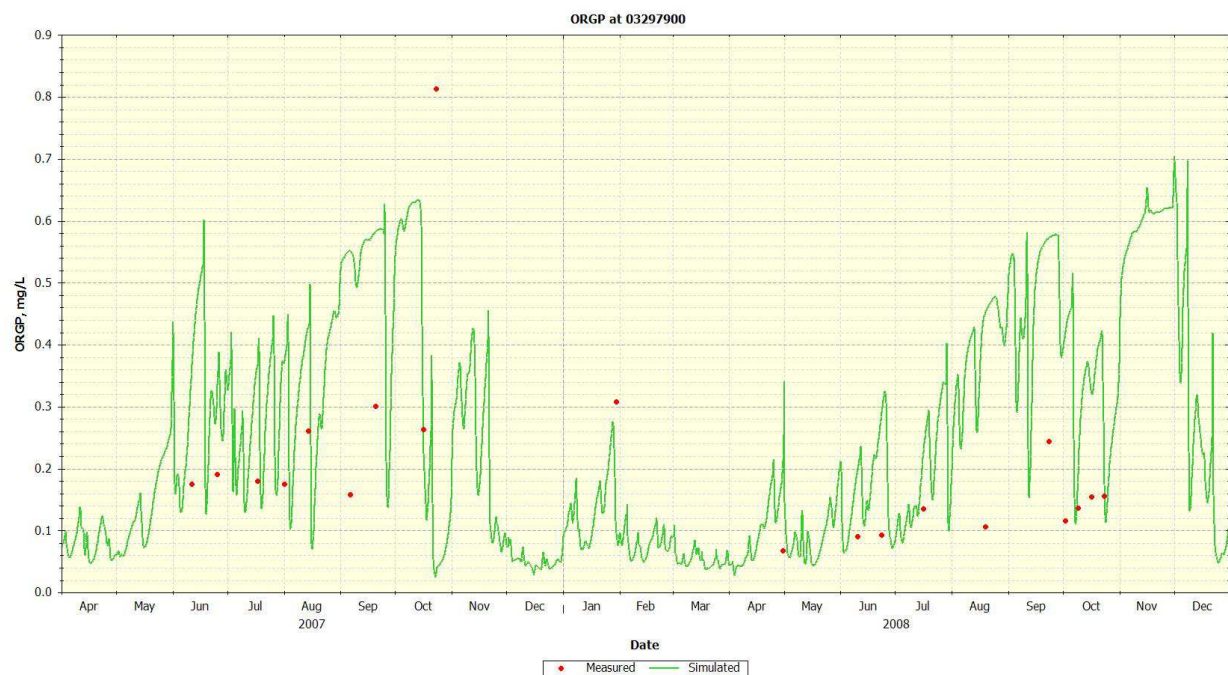


Figure A-243 Modeled vs. Observed ORGP (mg/L) at 03297900

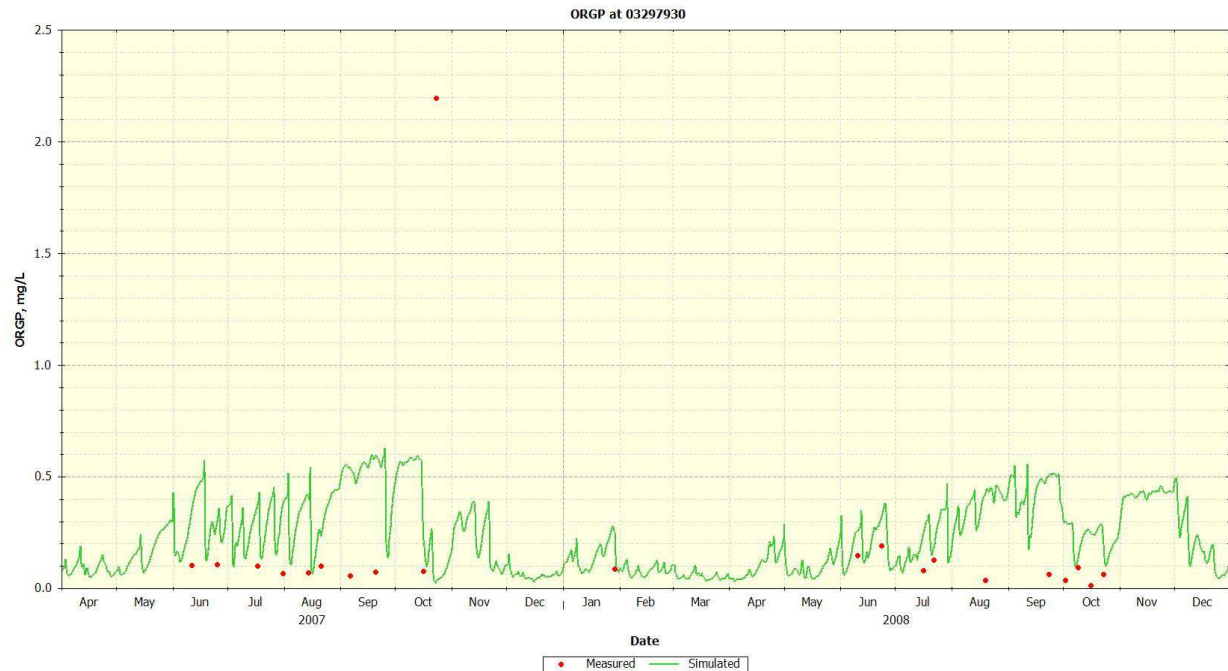


Figure A-244 Modeled vs. Observed ORGP (mg/L) at 03297930

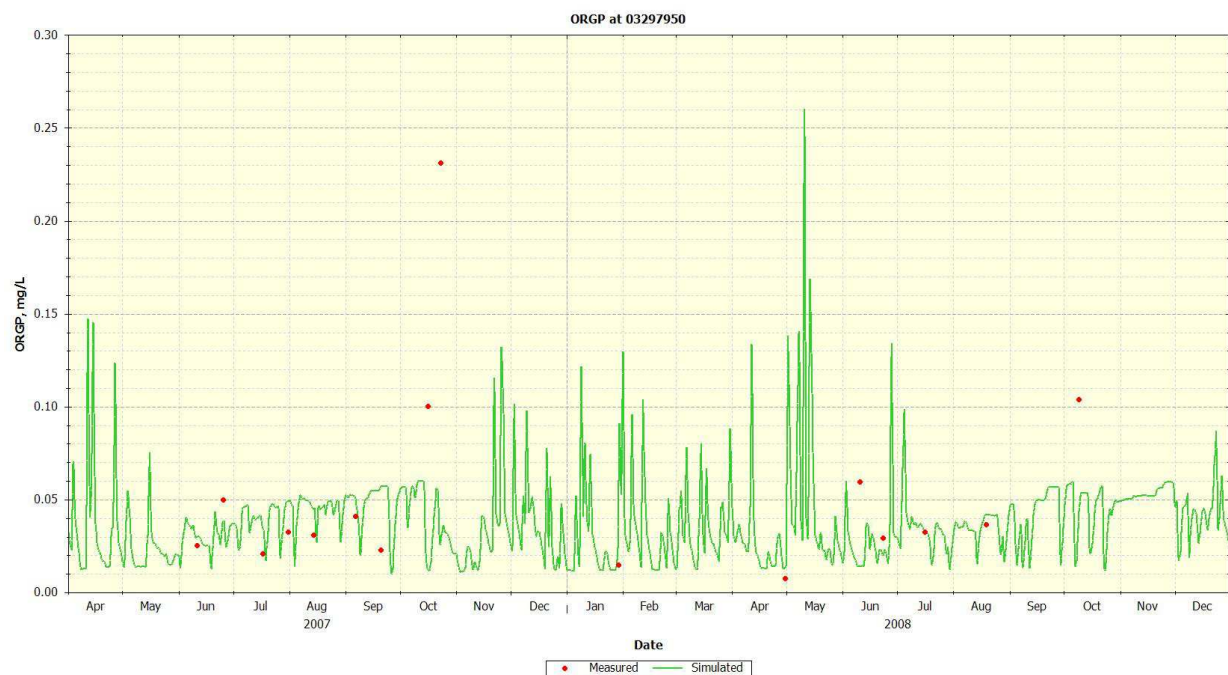


Figure A-245 Modeled vs. Observed ORGP (mg/L) at 03297950

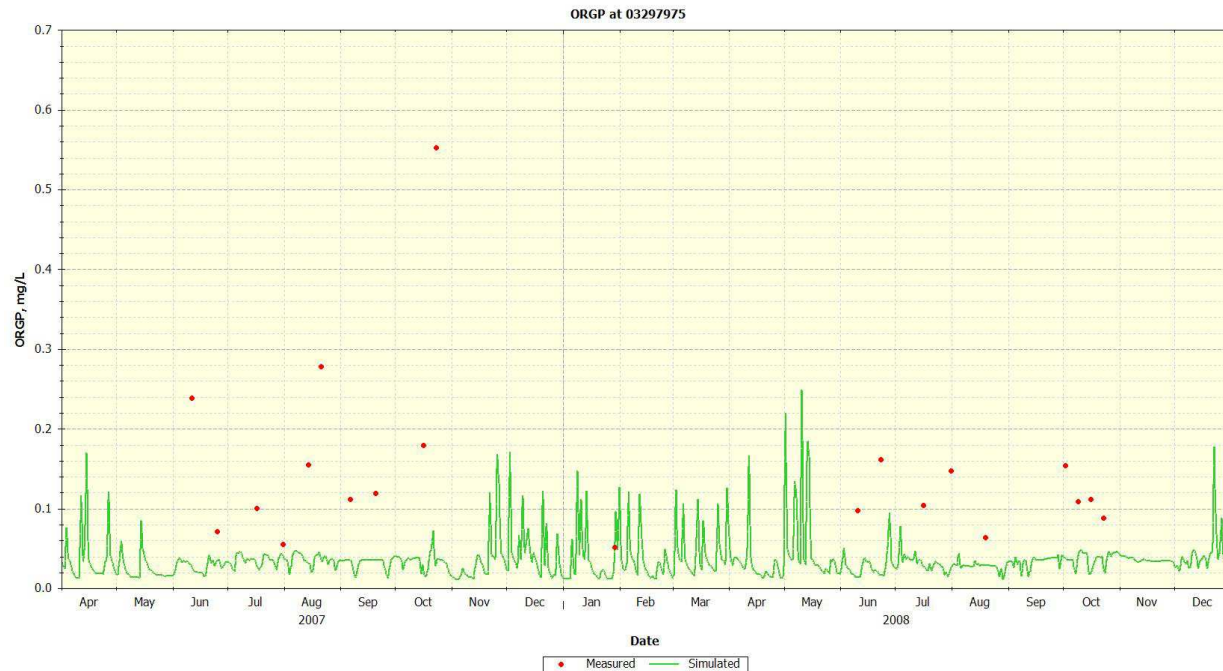


Figure A-246 Modeled vs. Observed ORGP (mg/L) at 03297975

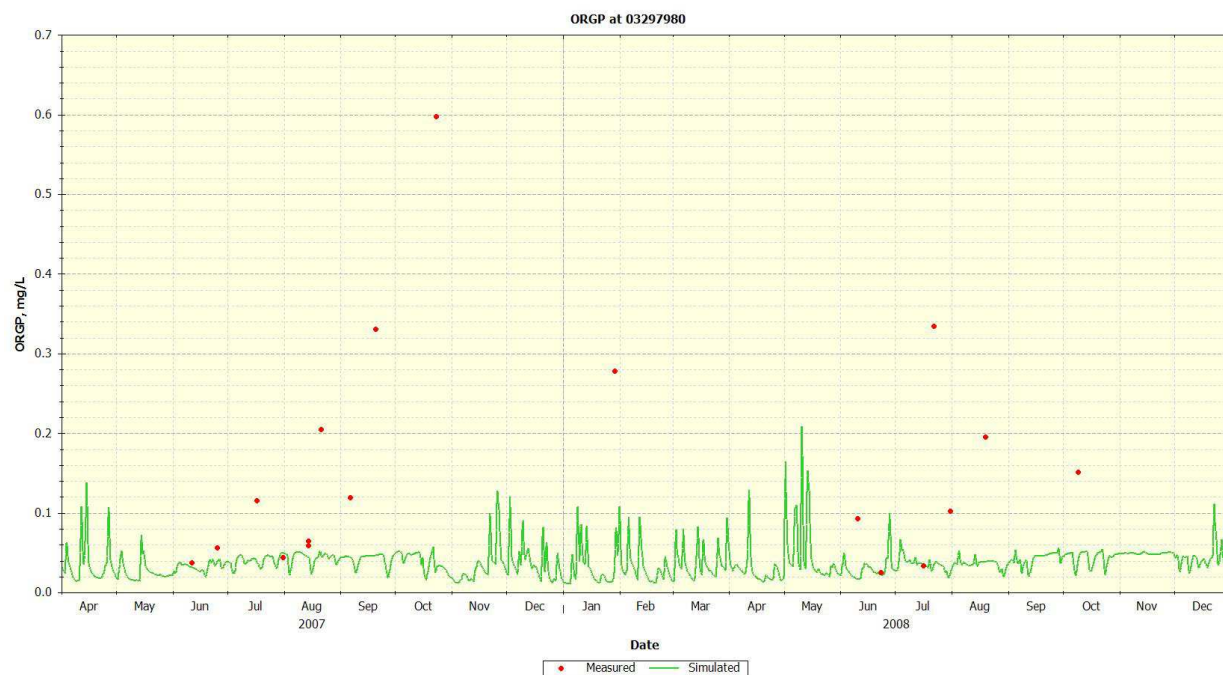


Figure A-247 Modeled vs. Observed ORGP (mg/L) at 03297980

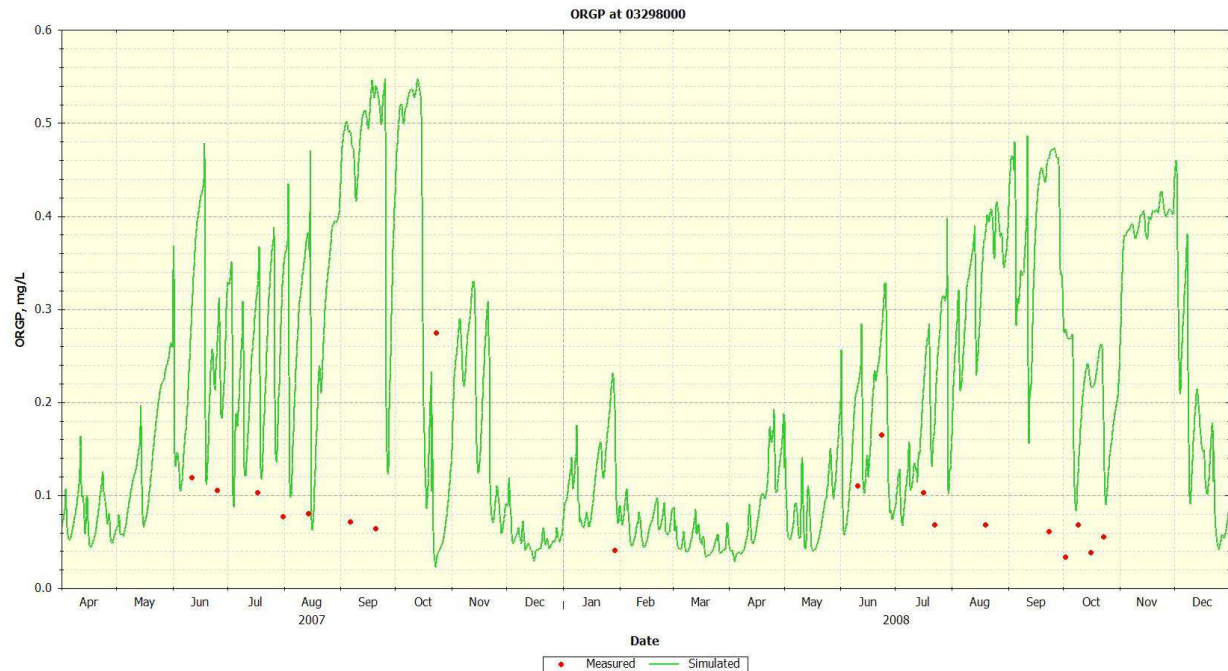


Figure A-248 Modeled vs. Observed ORGP (mg/L) at 03298000

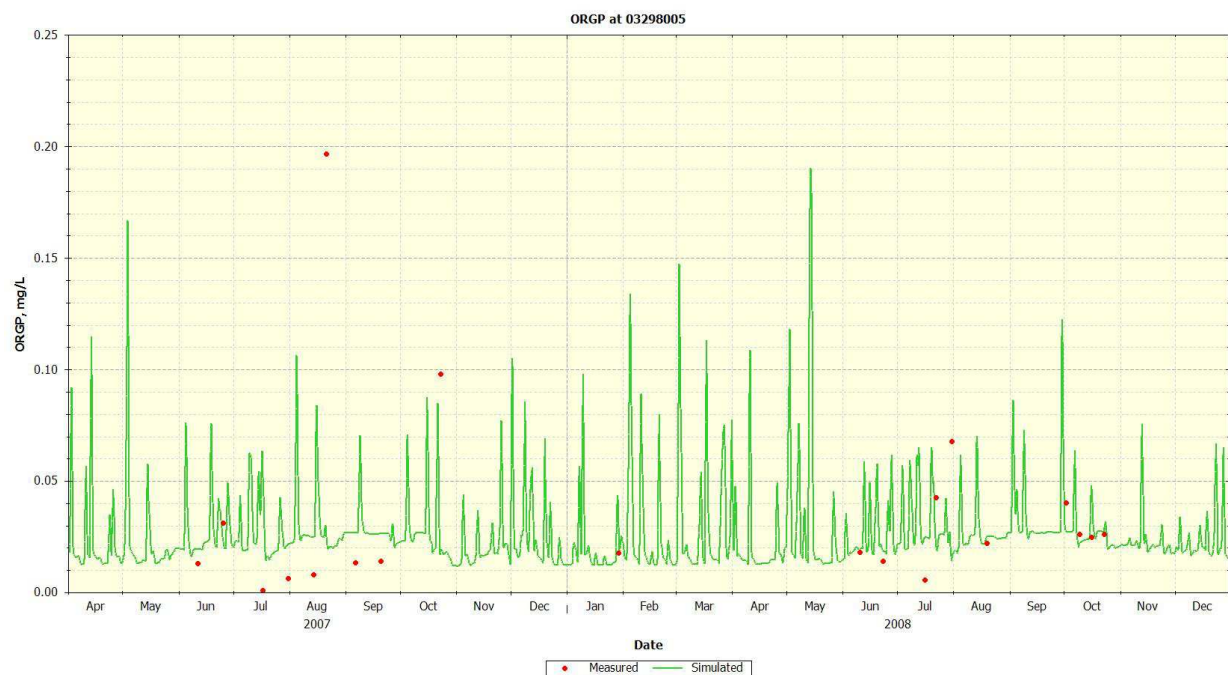


Figure A-249 Modeled vs. Observed ORGP (mg/L) at 03298005

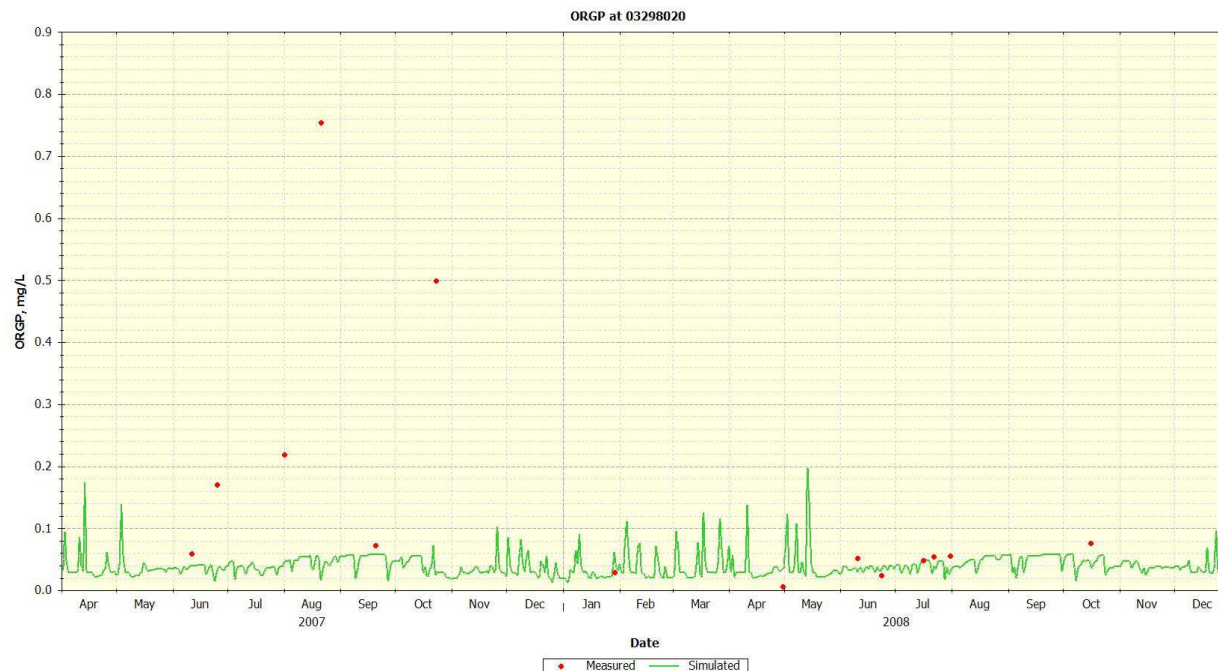


Figure A-250 Modeled vs. Observed ORGP (mg/L) at 03298020

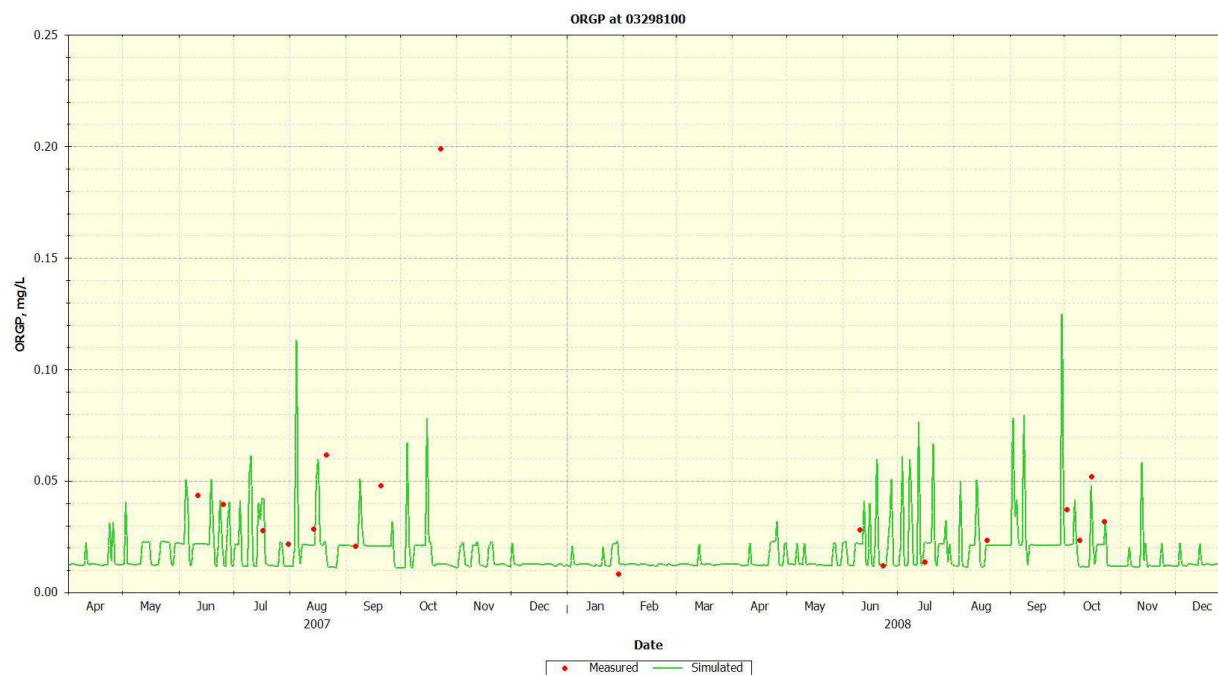


Figure A-251 Modeled vs. Observed ORGP (mg/L) at 03298100

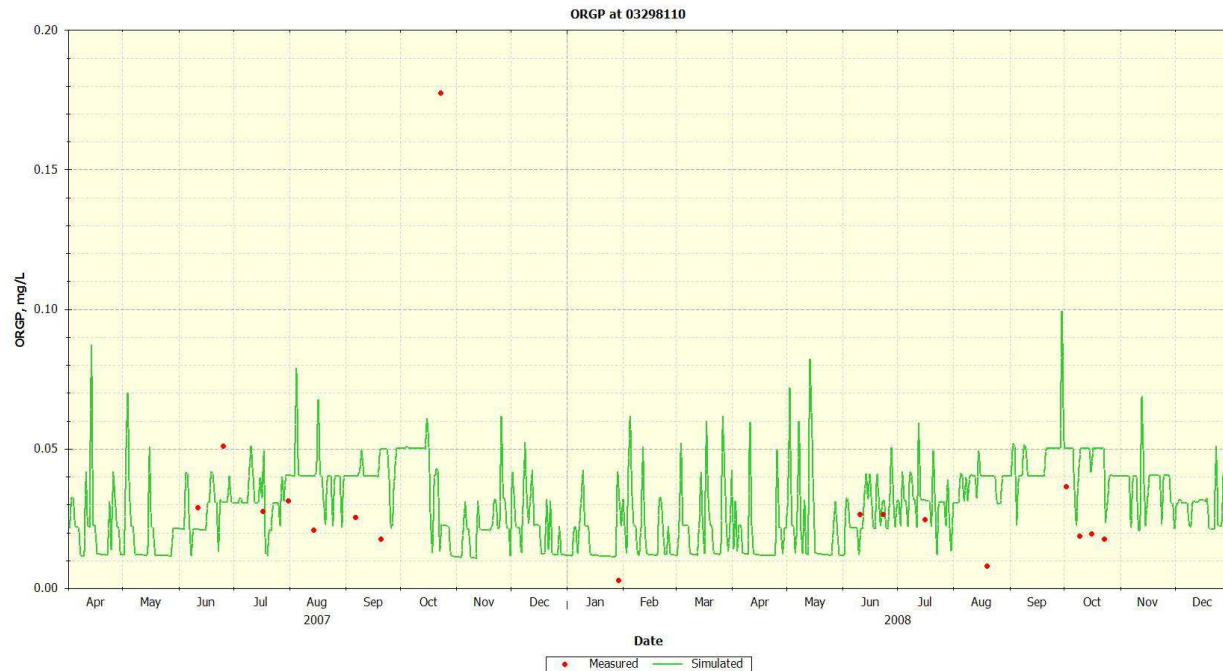


Figure A-252 Modeled vs. Observed ORGP (mg/L) at 03298110

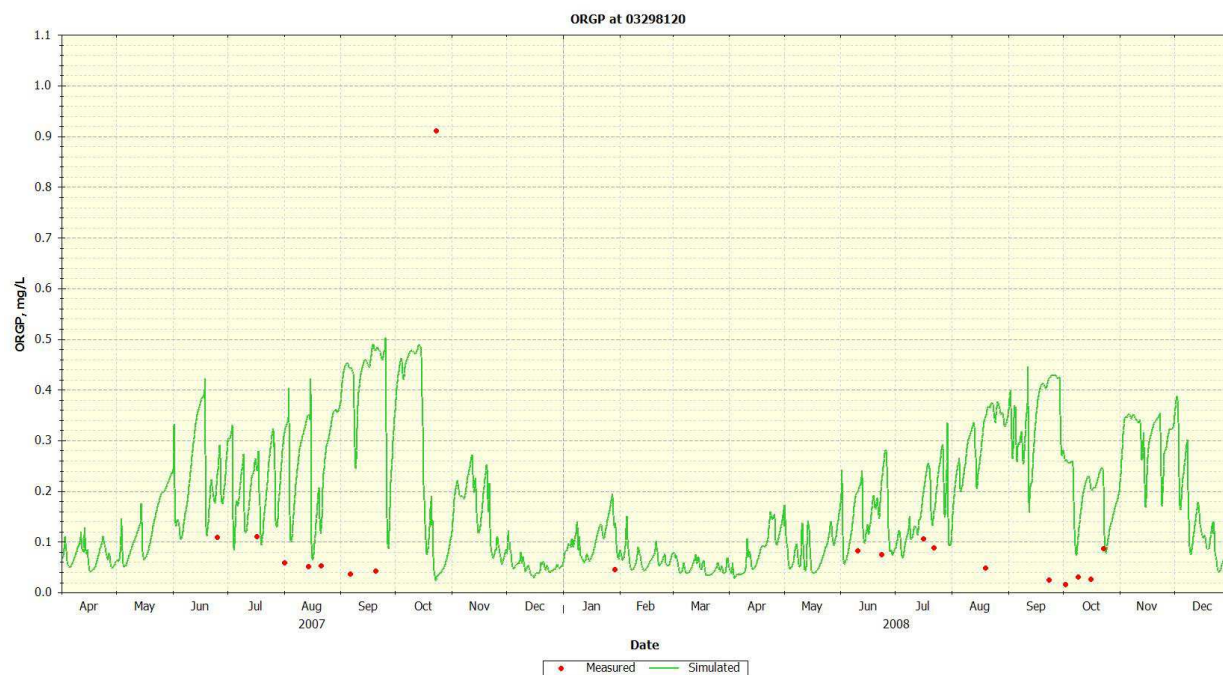


Figure A-253 Modeled vs. Observed ORGP (mg/L) at 03298120

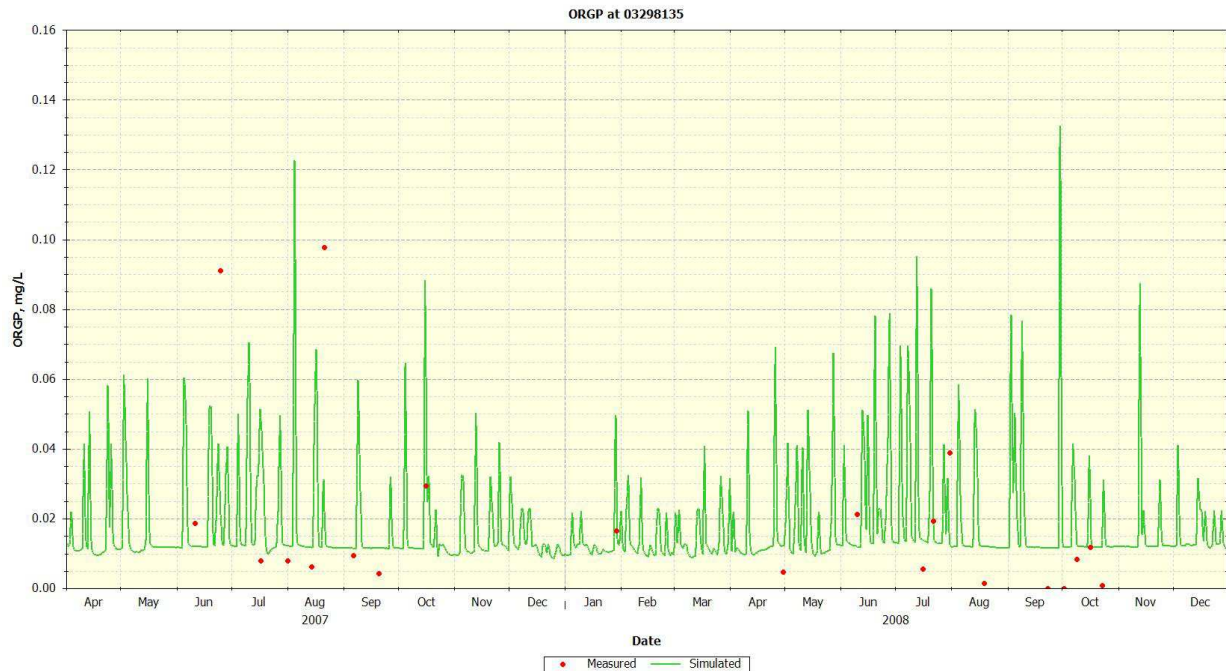


Figure A-254 Modeled vs. Observed ORGP (mg/L) at 03298135

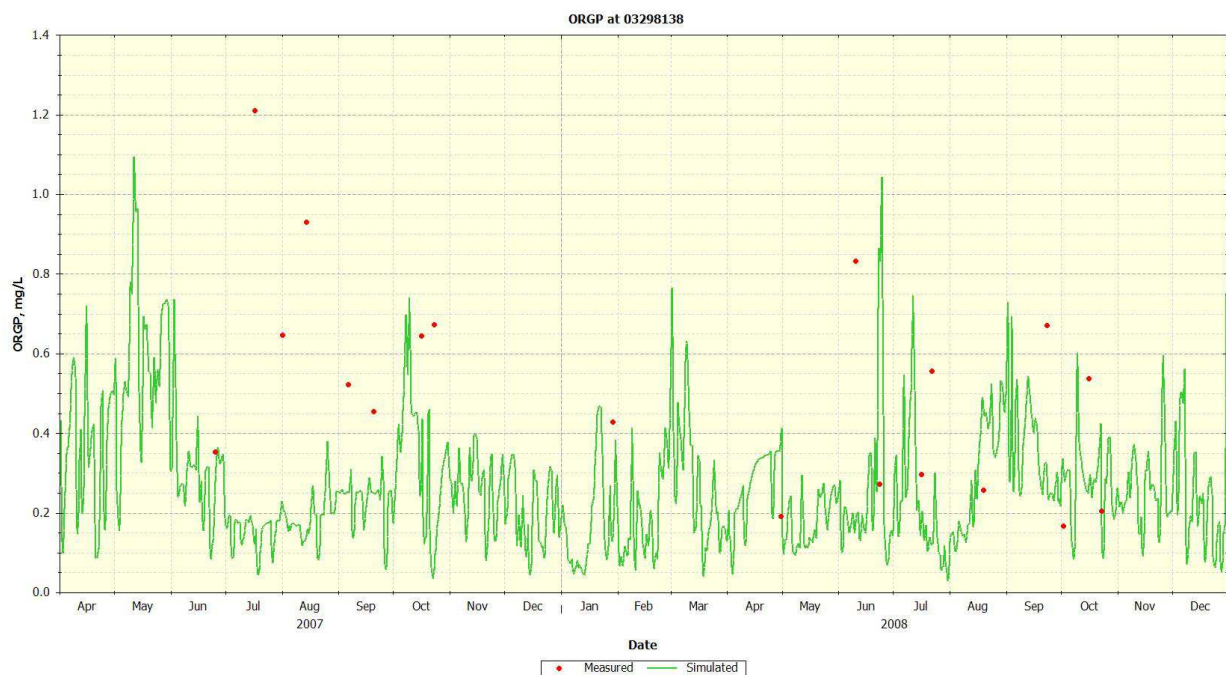


Figure A-255 Modeled vs. Observed ORGP (mg/L) at 03298138

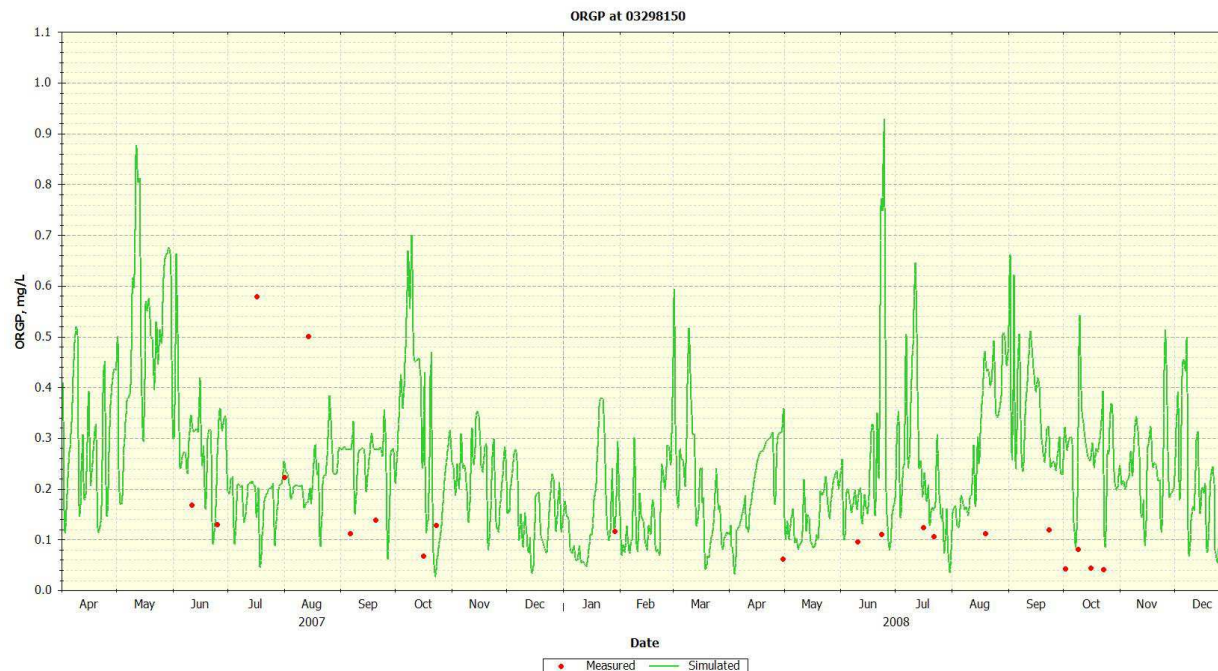


Figure A-256 Modeled vs. Observed ORGP (mg/L) at 03298150

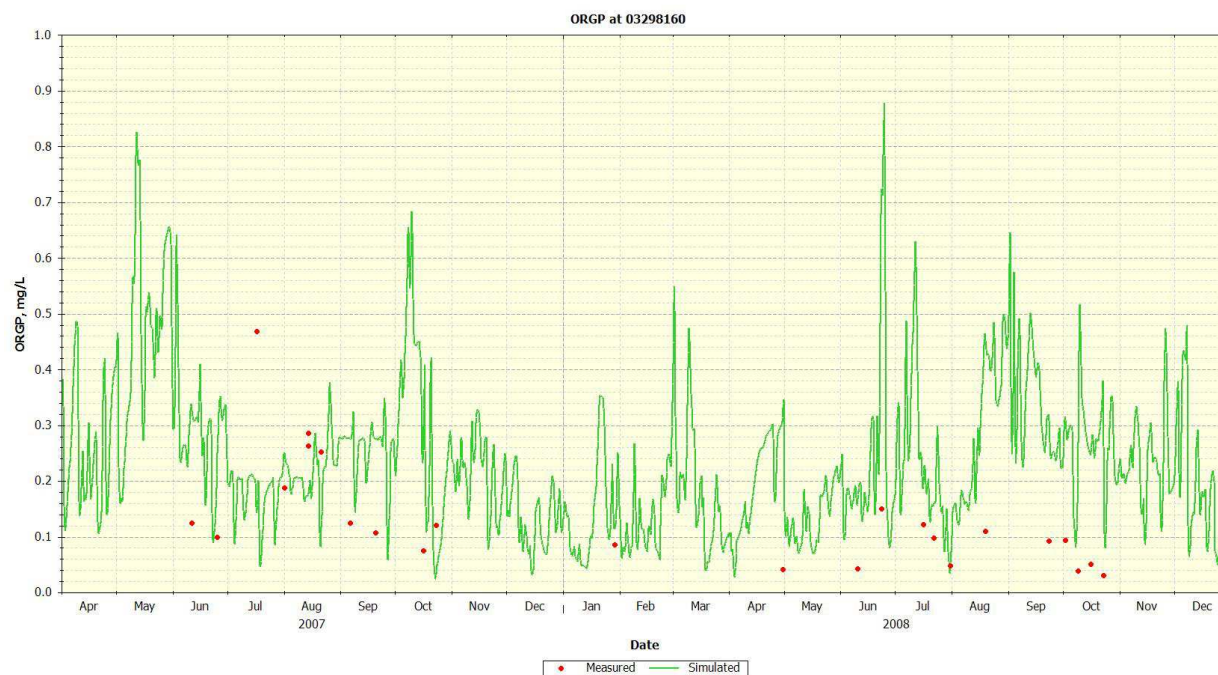


Figure A-257 Modeled vs. Observed ORGP (mg/L) at 03298160

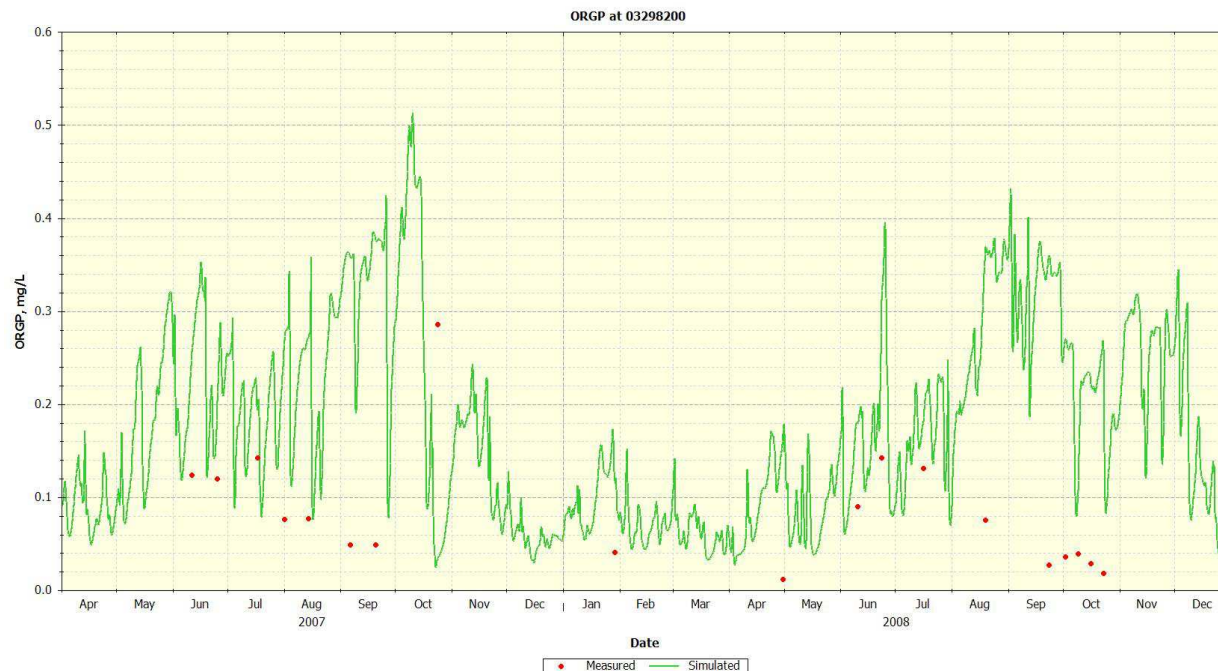


Figure A-258 Modeled vs. Observed ORGP (mg/L) at 03298200

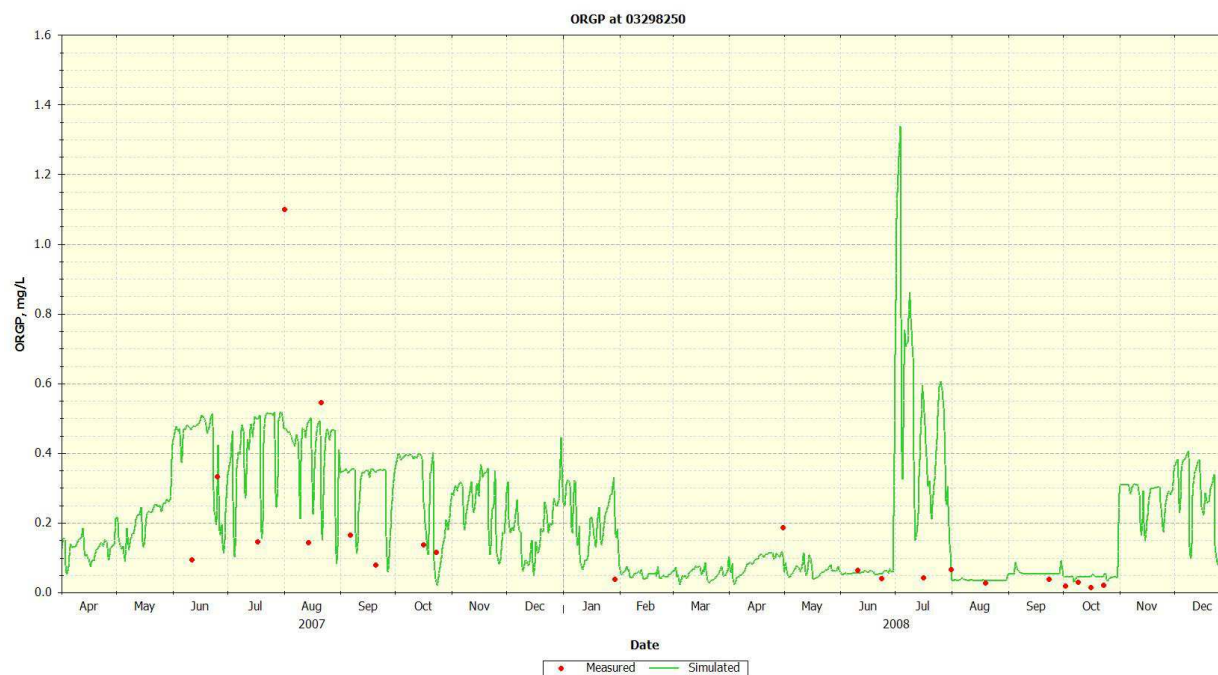


Figure A-259 Modeled vs. Observed ORGP (mg/L) at 03298250

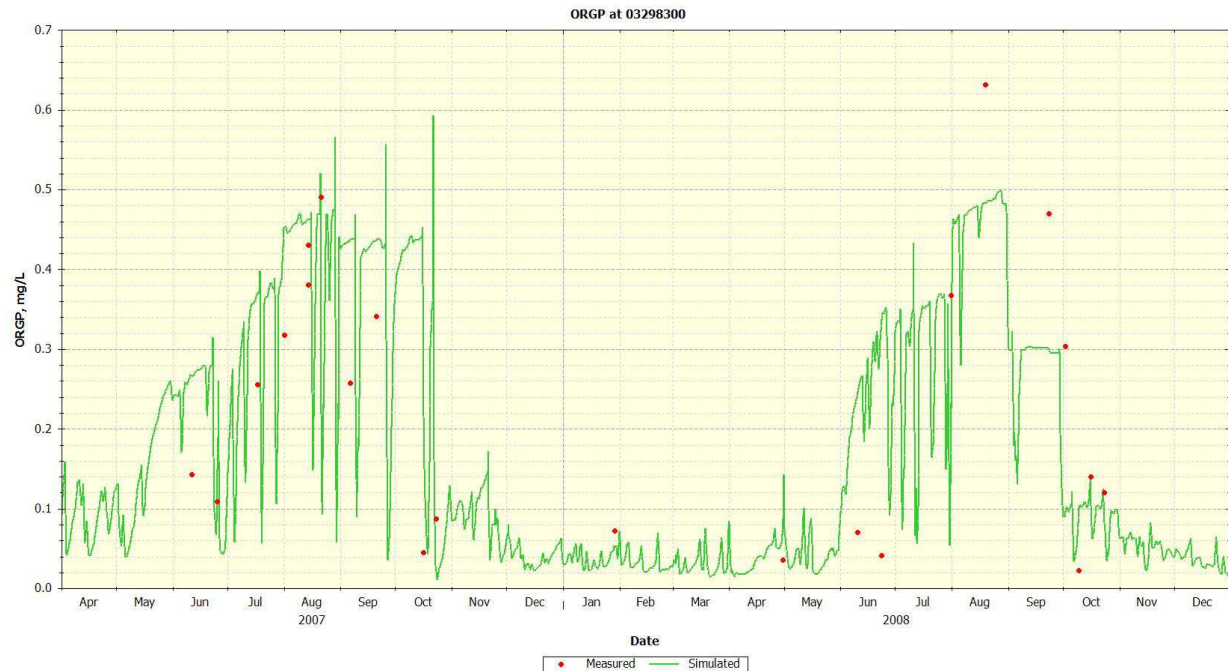


Figure A-260 Modeled vs. Observed ORGP (mg/L) at 03298300

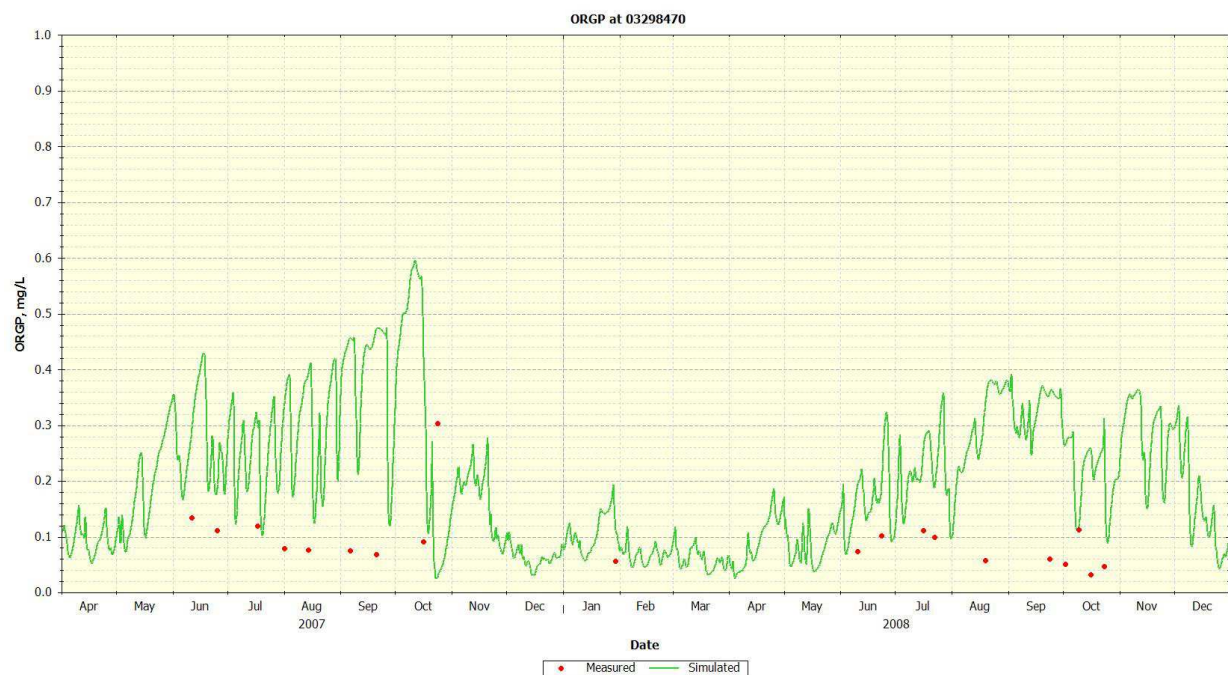


Figure A-261 Modeled vs. Observed ORGP (mg/L) at 03298470

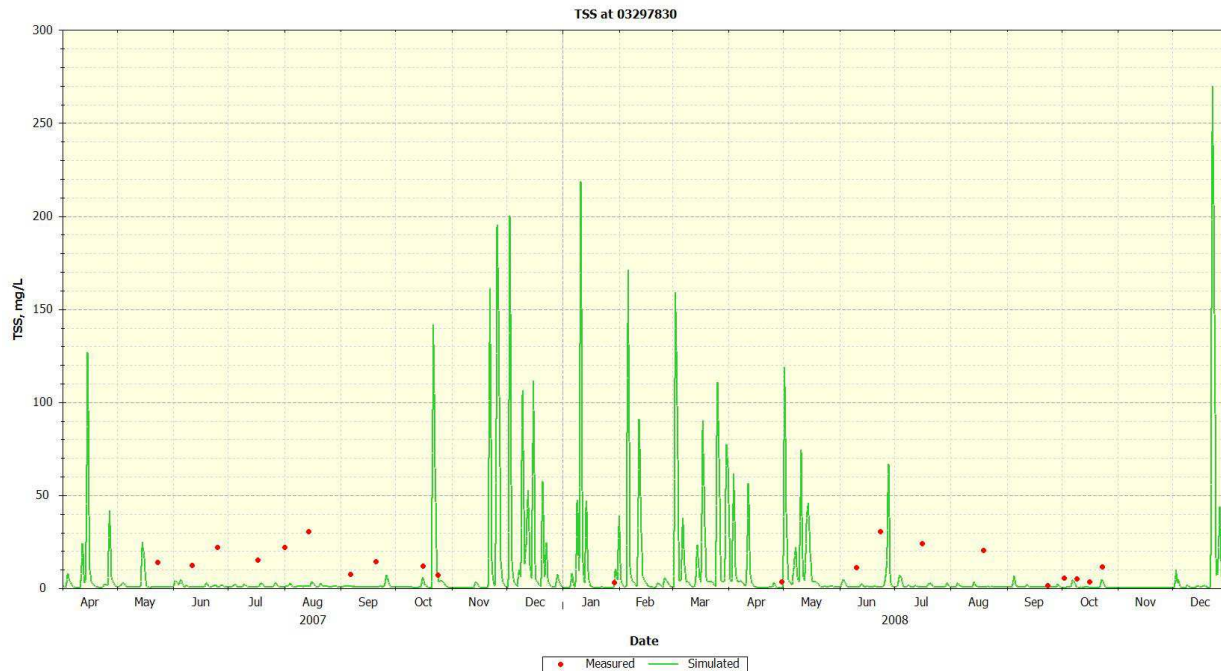


Figure A-262 Modeled vs. Observed TSS (mg/L) at 03297830

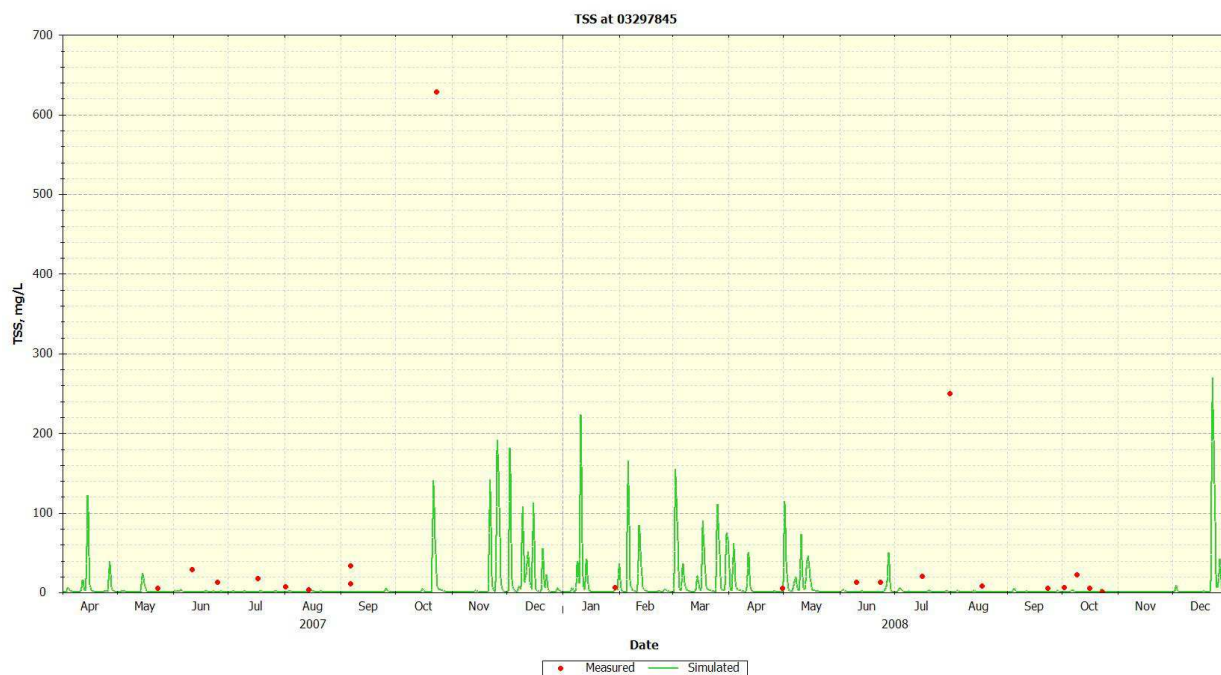


Figure A-263 Modeled vs. Observed TSS (mg/L) at 03297845

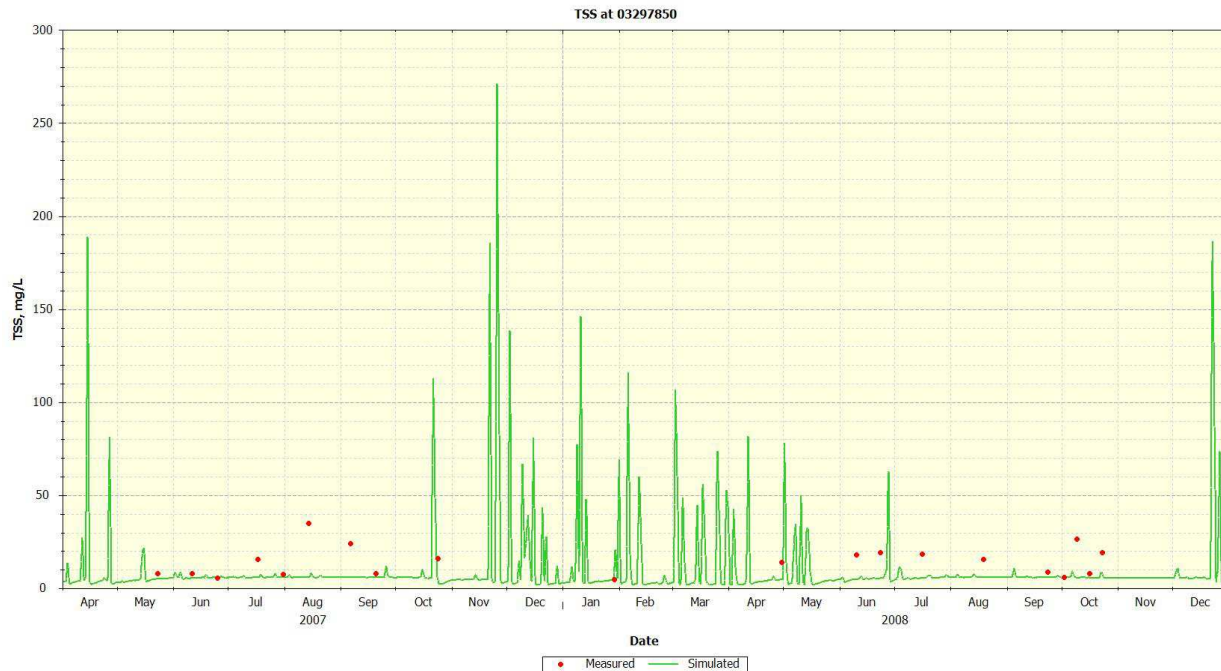


Figure A-264 Modeled vs. Observed TSS (mg/L) at 03297850

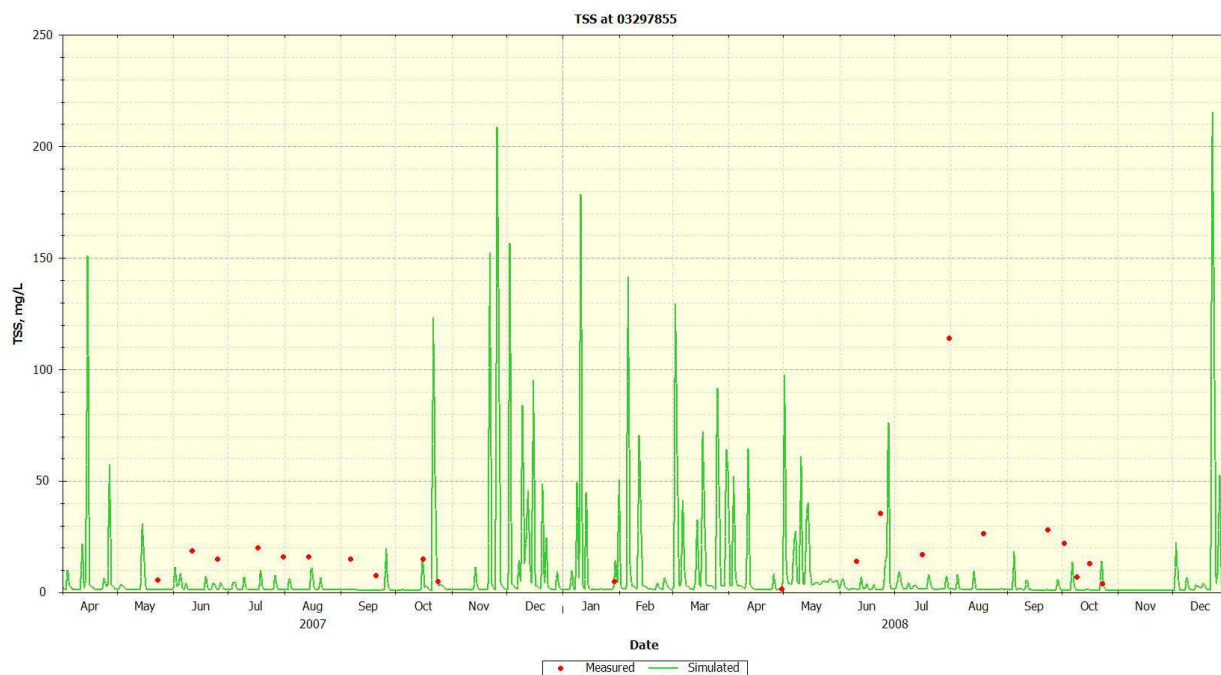


Figure A-265 Modeled vs. Observed TSS (mg/L) at 03297855

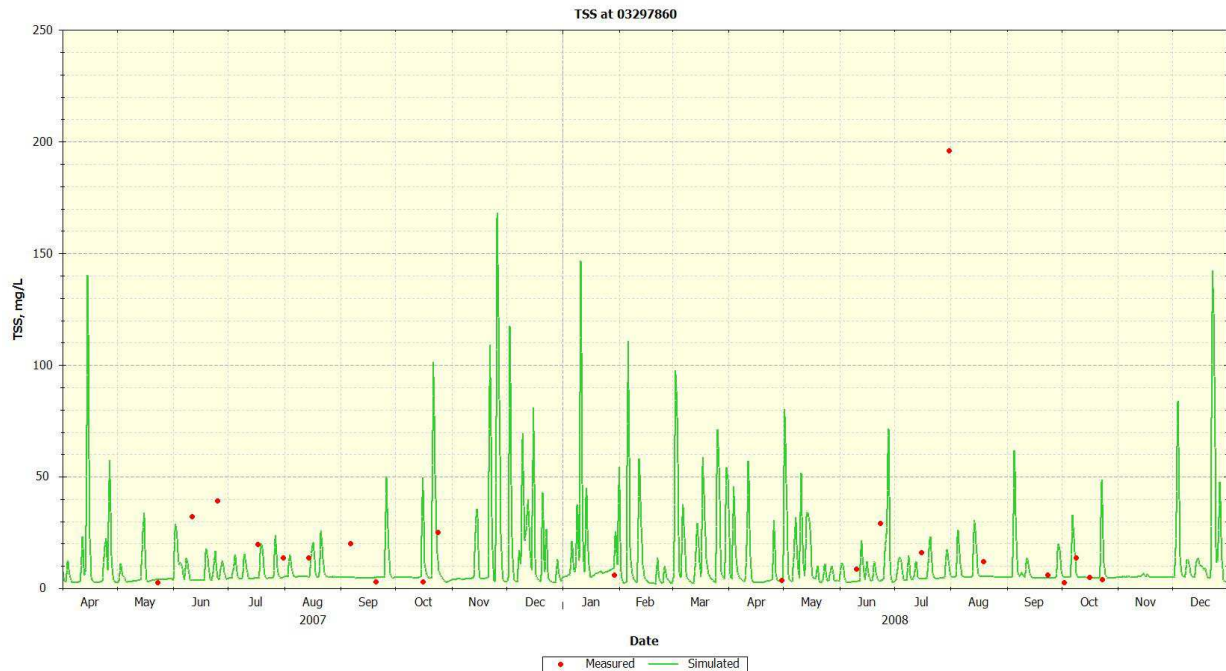


Figure A-266 Modeled vs. Observed TSS (mg/L) at 03297860

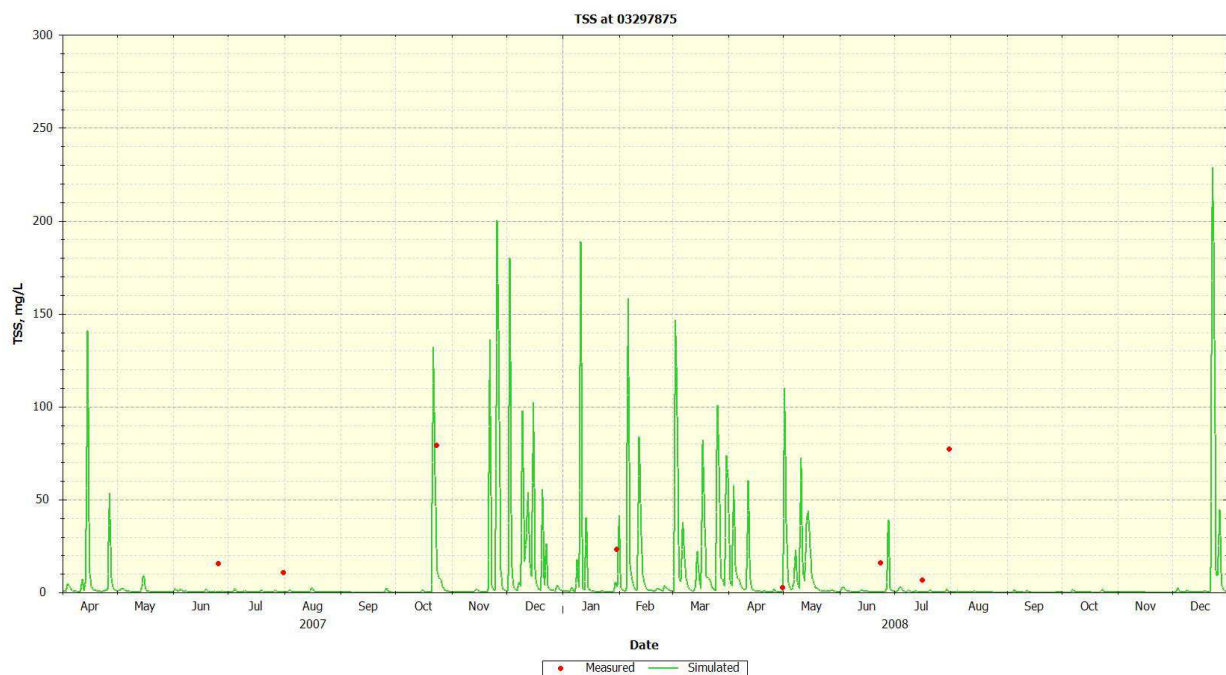


Figure A-267 Modeled vs. Observed TSS (mg/L) at 03297875

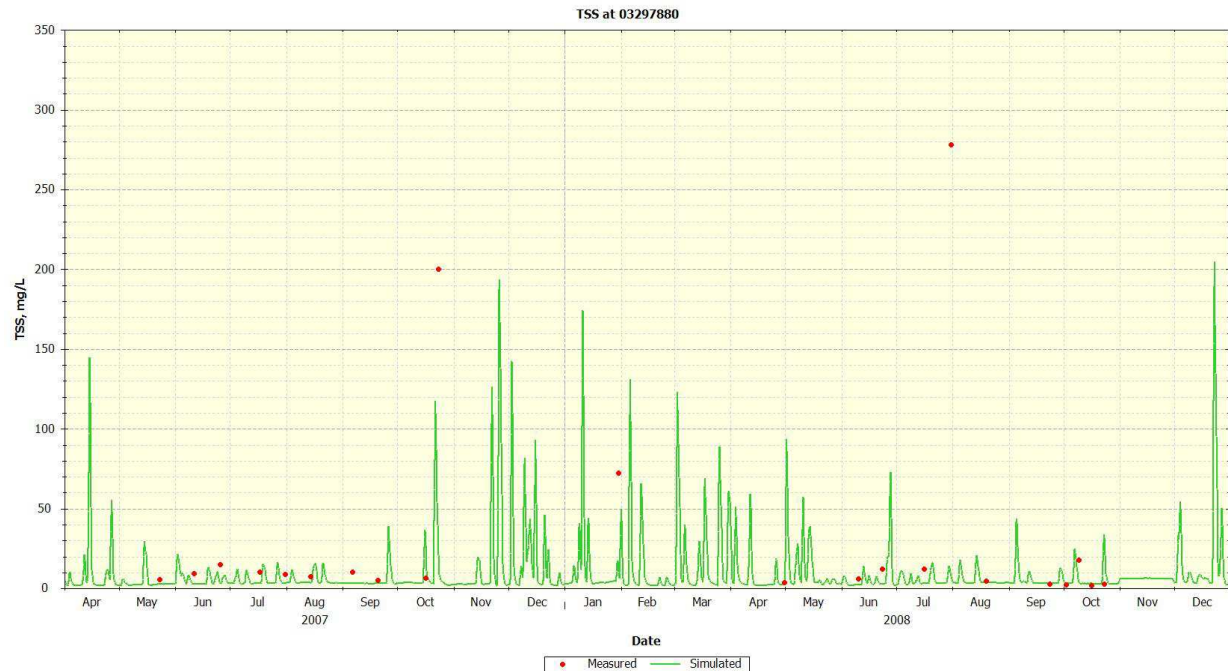


Figure A-268 Modeled vs. Observed TSS (mg/L) at 03297880

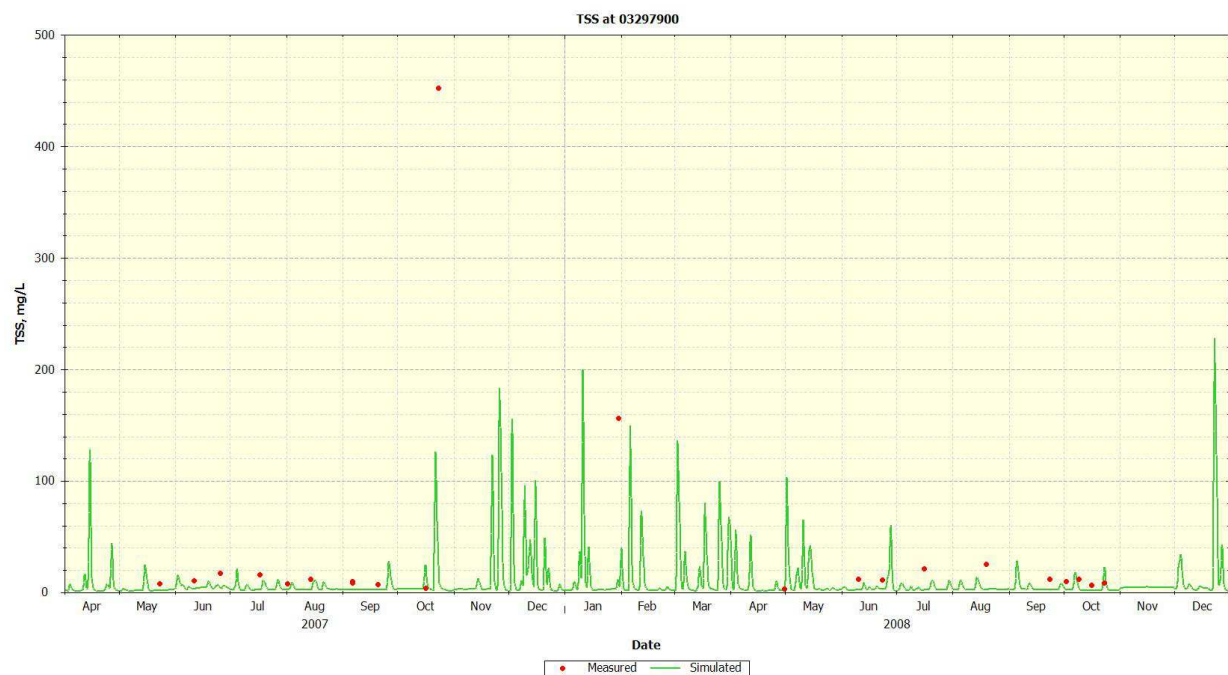


Figure A-269 Modeled vs. Observed TSS (mg/L) at 03297900

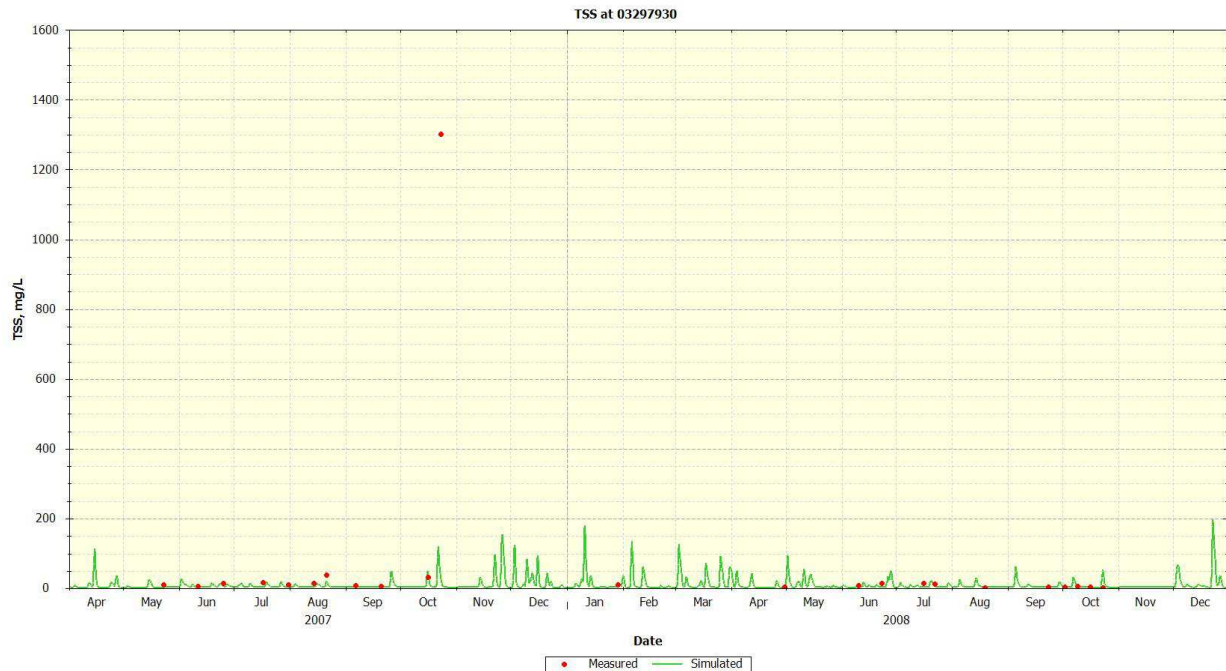


Figure A-270 Modeled vs. Observed TSS (mg/L) at 03297930

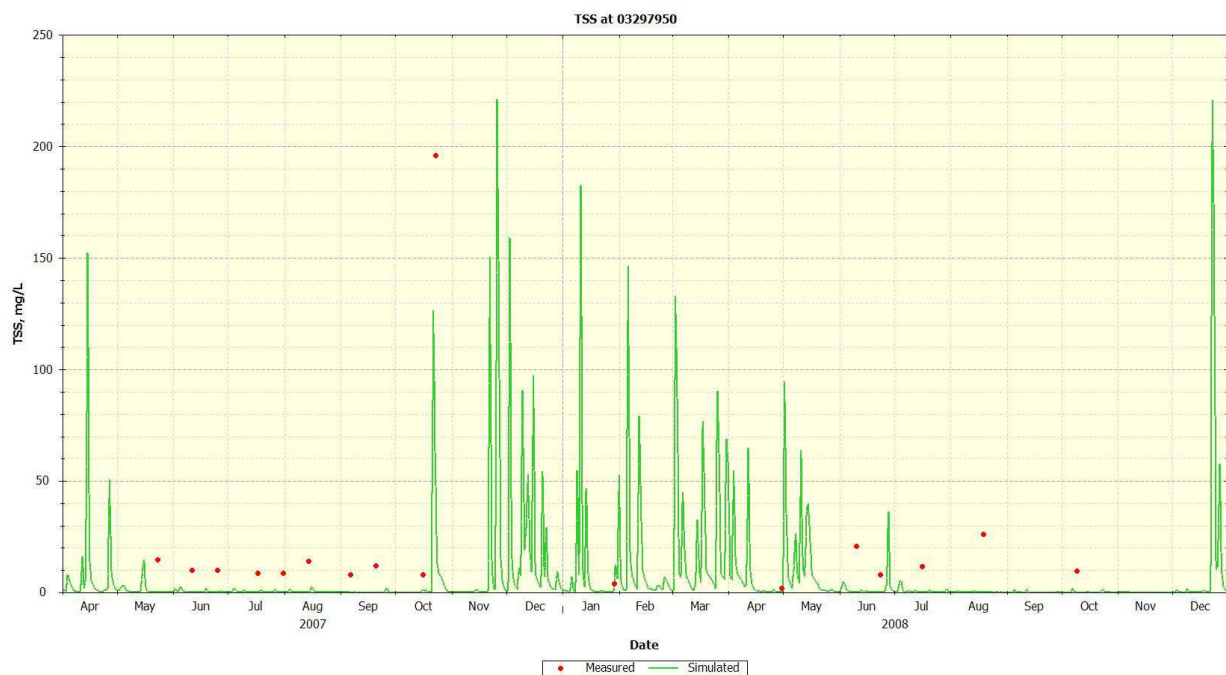


Figure A-271 Modeled vs. Observed TSS (mg/L) at 03297950

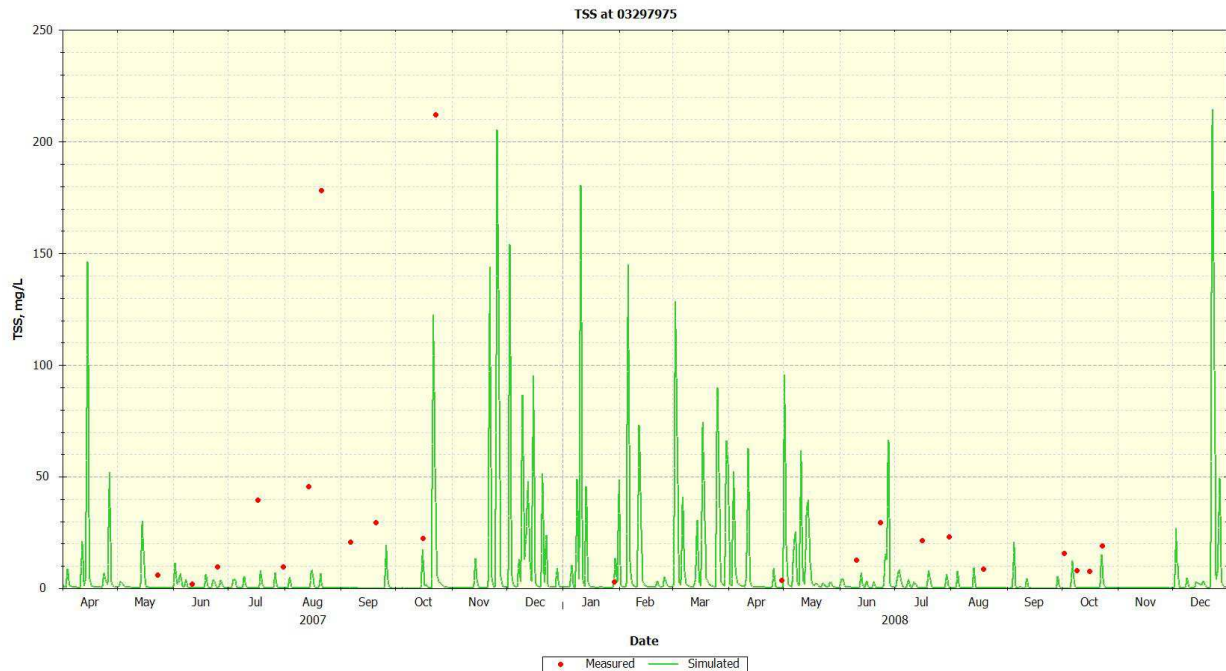


Figure A-272 Modeled vs. Observed TSS (mg/L) at 03297975

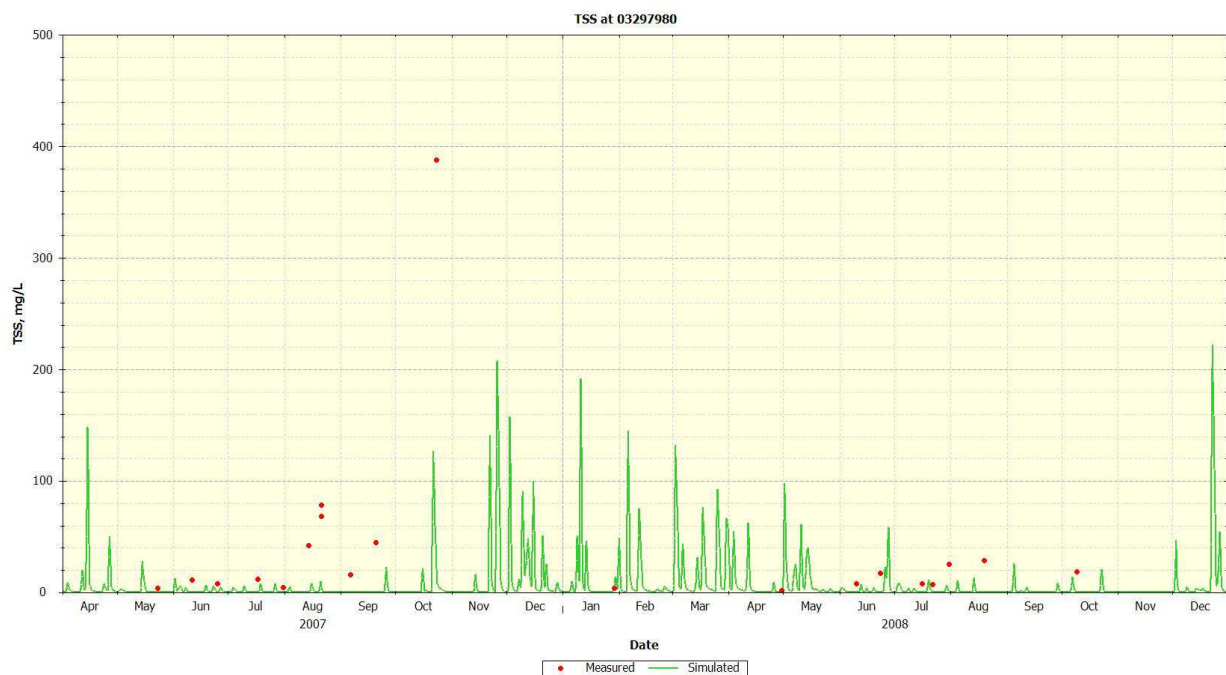


Figure A-273 Modeled vs. Observed TSS (mg/L) at 03297980

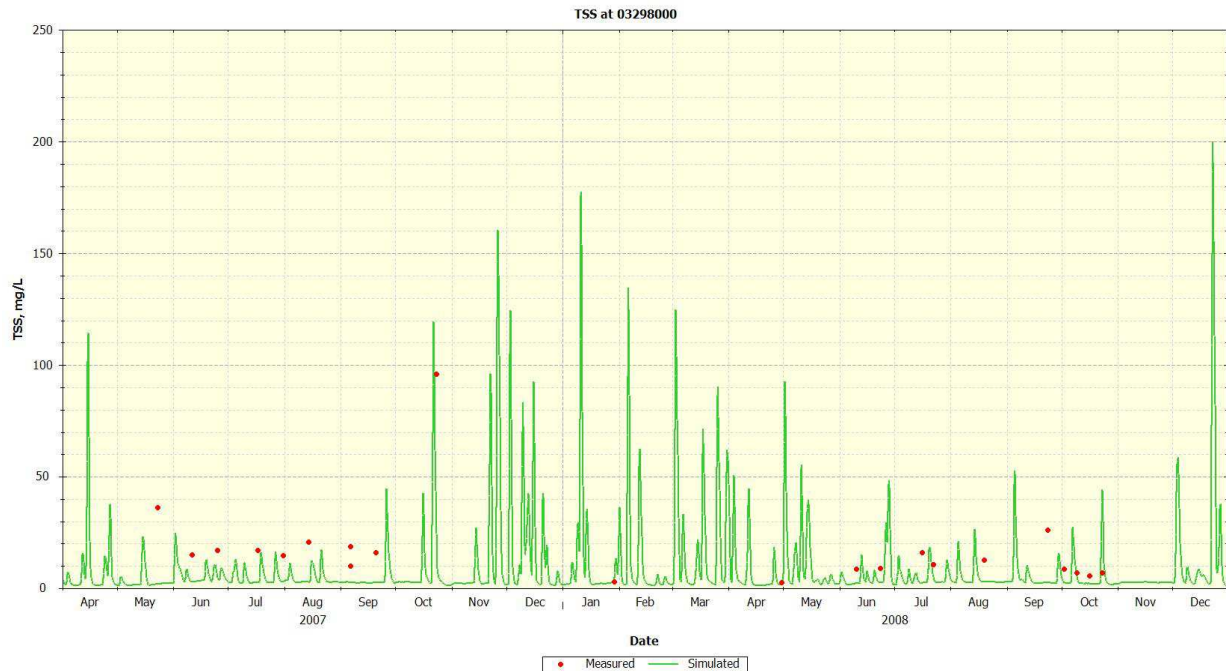


Figure A-274 Modeled vs. Observed TSS (mg/L) at 03298000

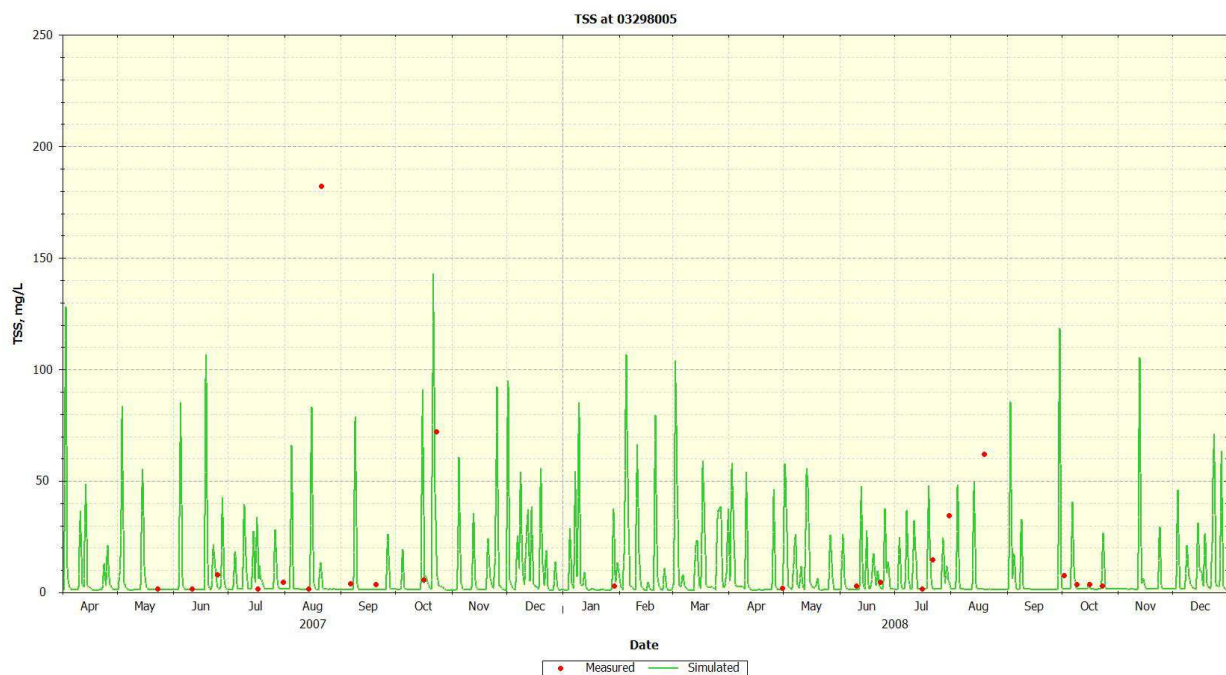


Figure A-275 Modeled vs. Observed TSS (mg/L) at 03298005

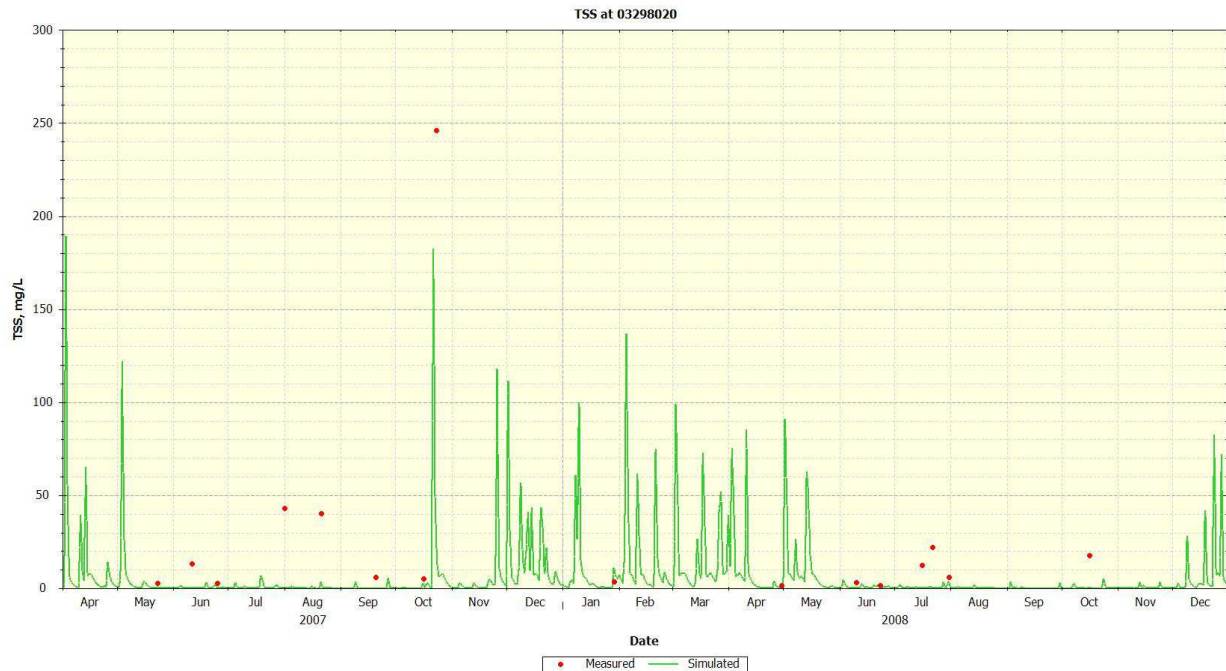


Figure A-276 Modeled vs. Observed TSS (mg/L) at 03298020

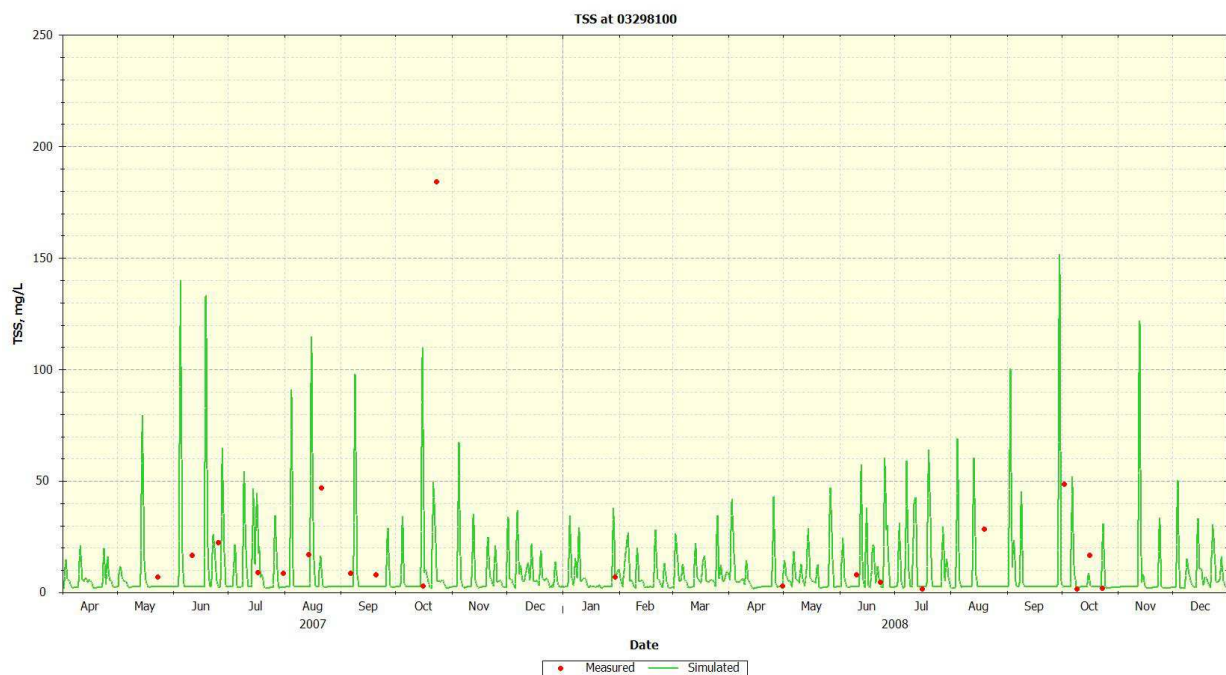


Figure A-277 Modeled vs. Observed TSS (mg/L) at 03298100

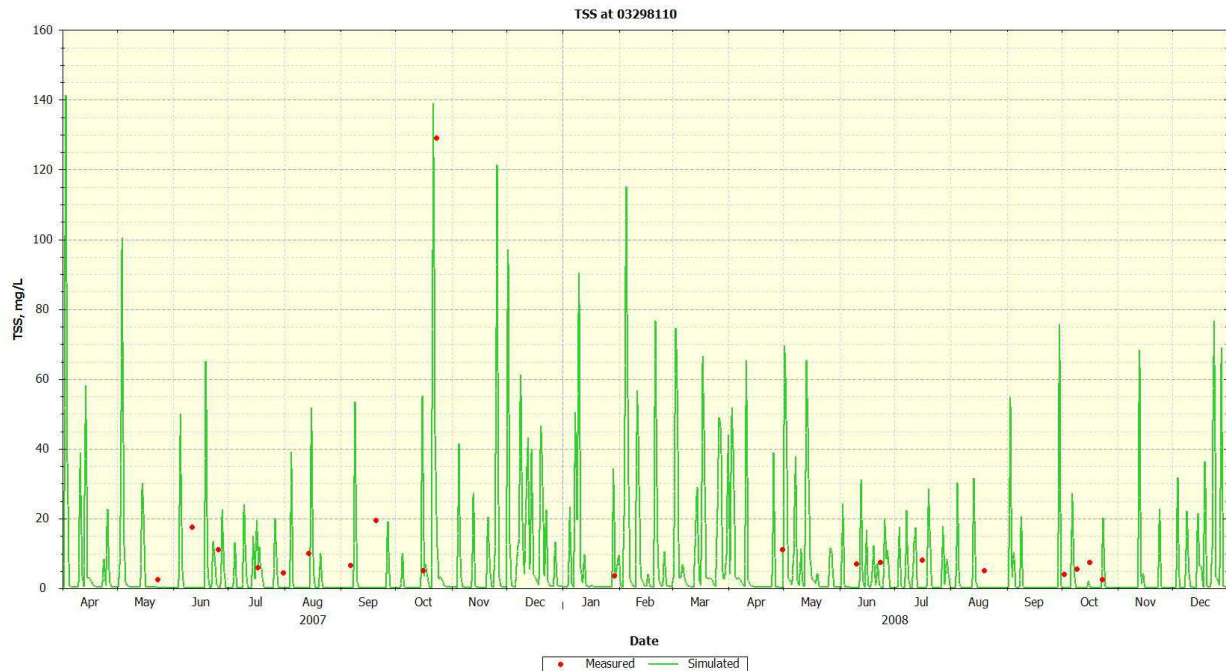


Figure A-278 Modeled vs. Observed TSS (mg/L) at 03298110

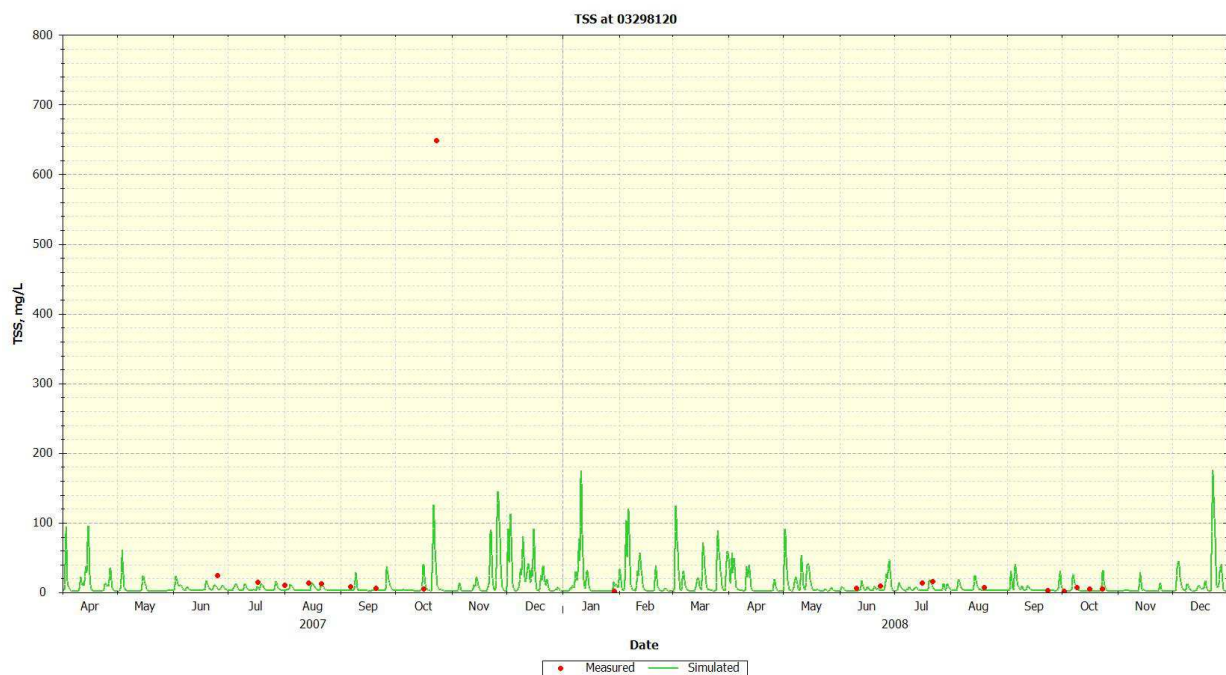


Figure A-279 Modeled vs. Observed TSS (mg/L) at 03298120

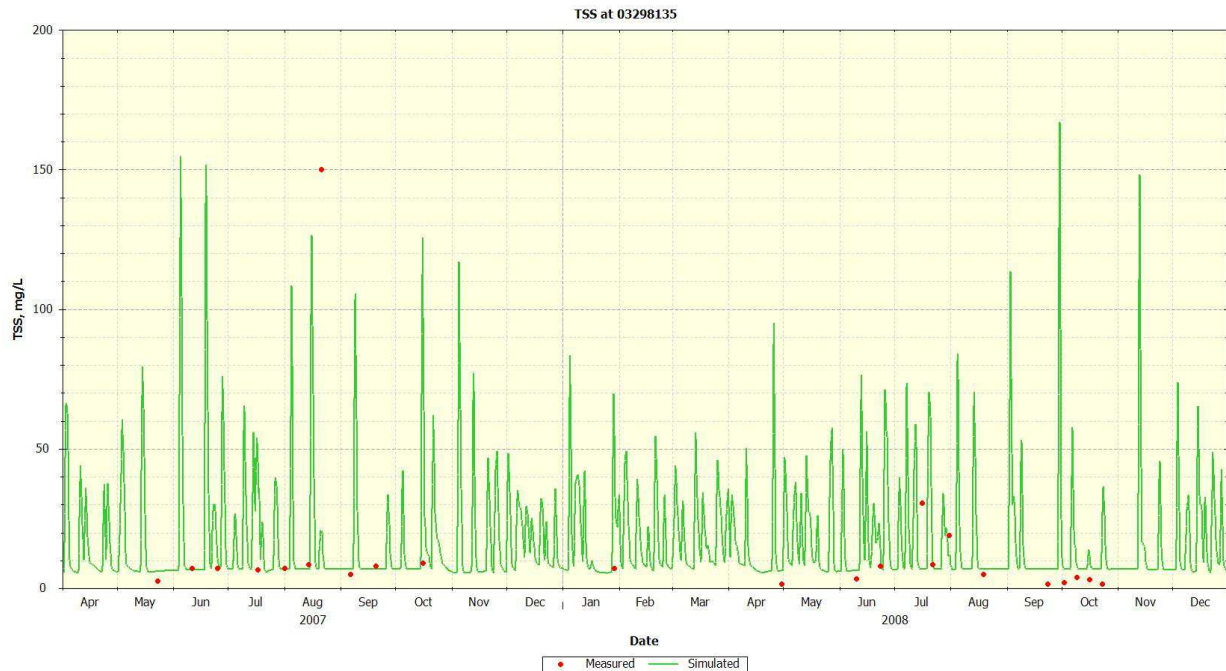


Figure A-280 Modeled vs. Observed TSS (mg/L) at 03298135

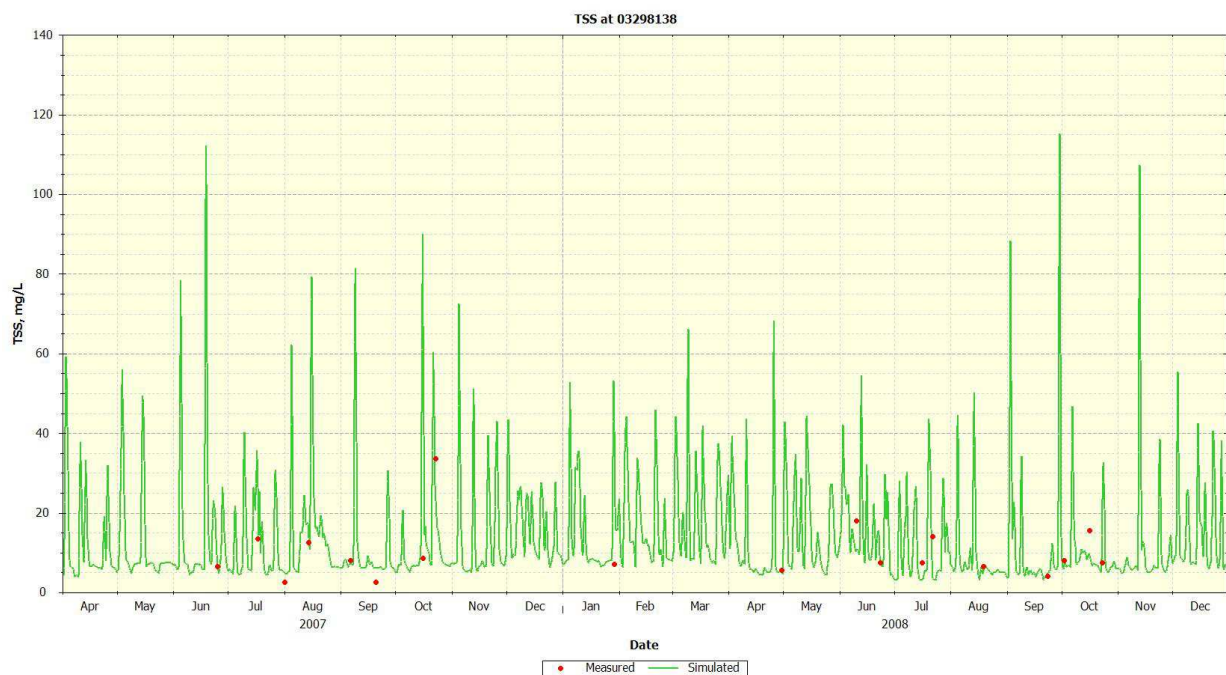


Figure A-281 Modeled vs. Observed TSS (mg/L) at 03298138

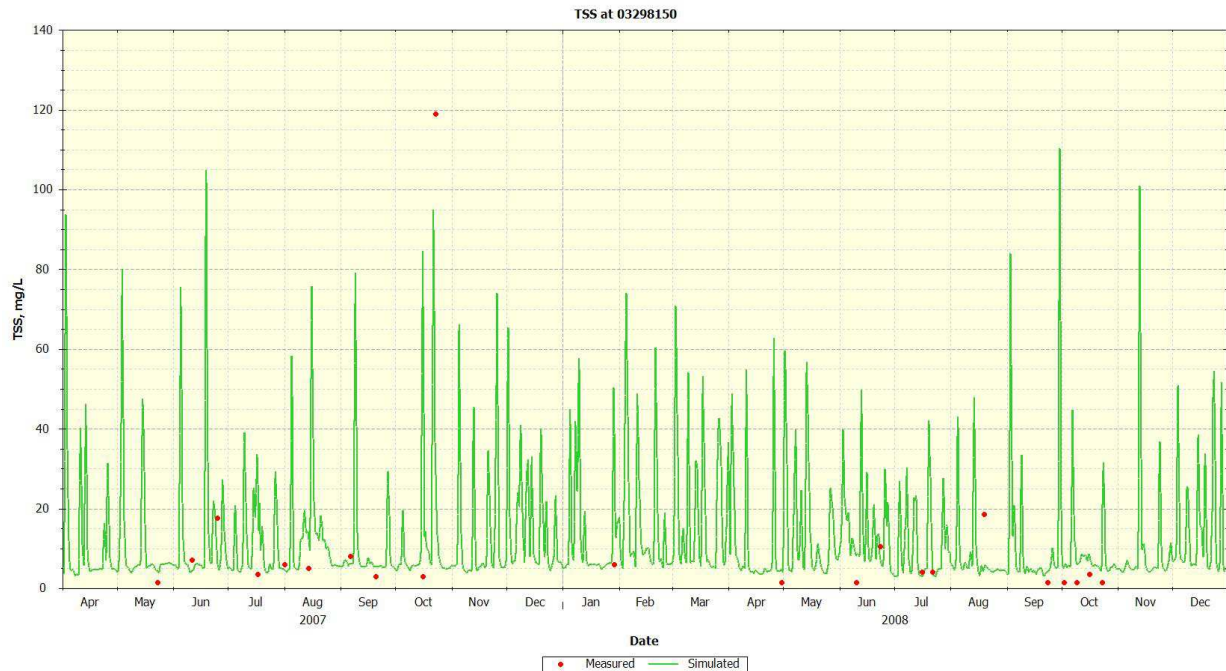


Figure A-282 Modeled vs. Observed TSS (mg/L) at 03298150

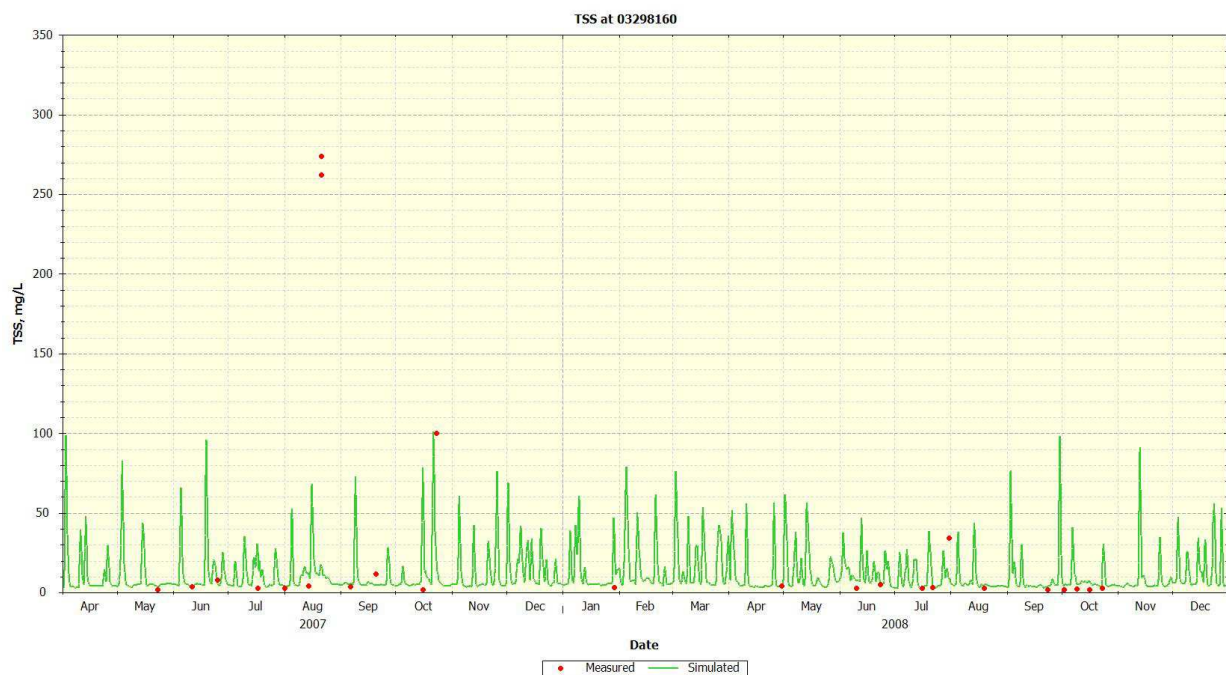


Figure A-283 Modeled vs. Observed TSS (mg/L) at 03298160

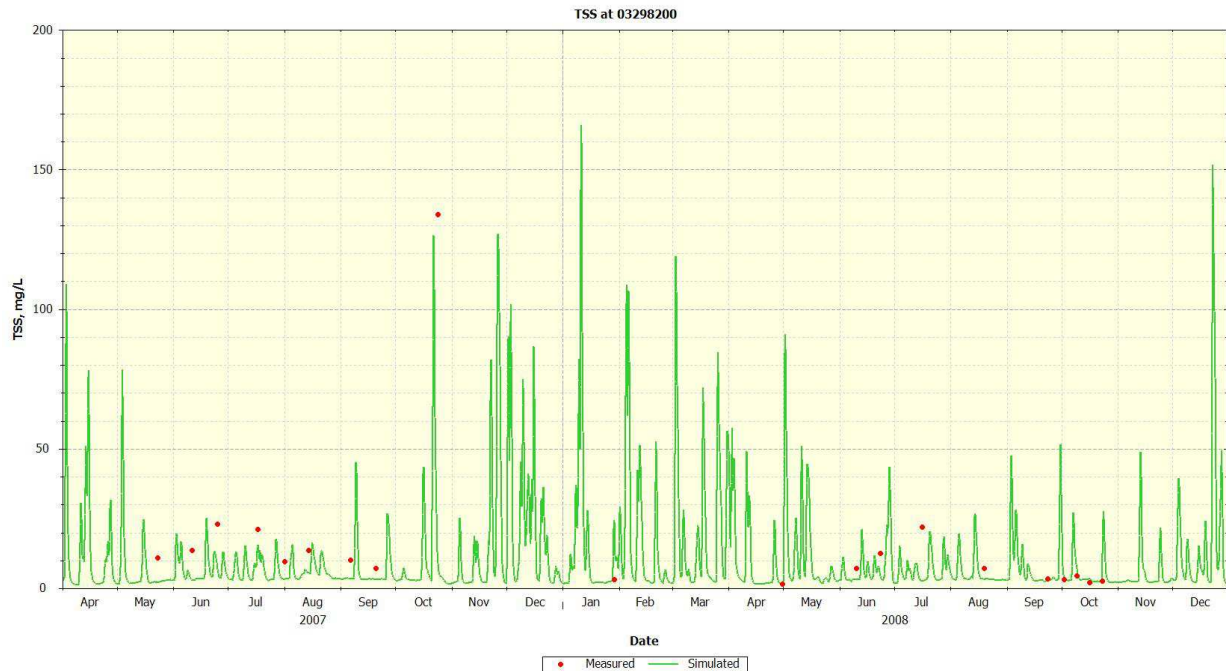


Figure A-284 Modeled vs. Observed TSS (mg/L) at 03298200

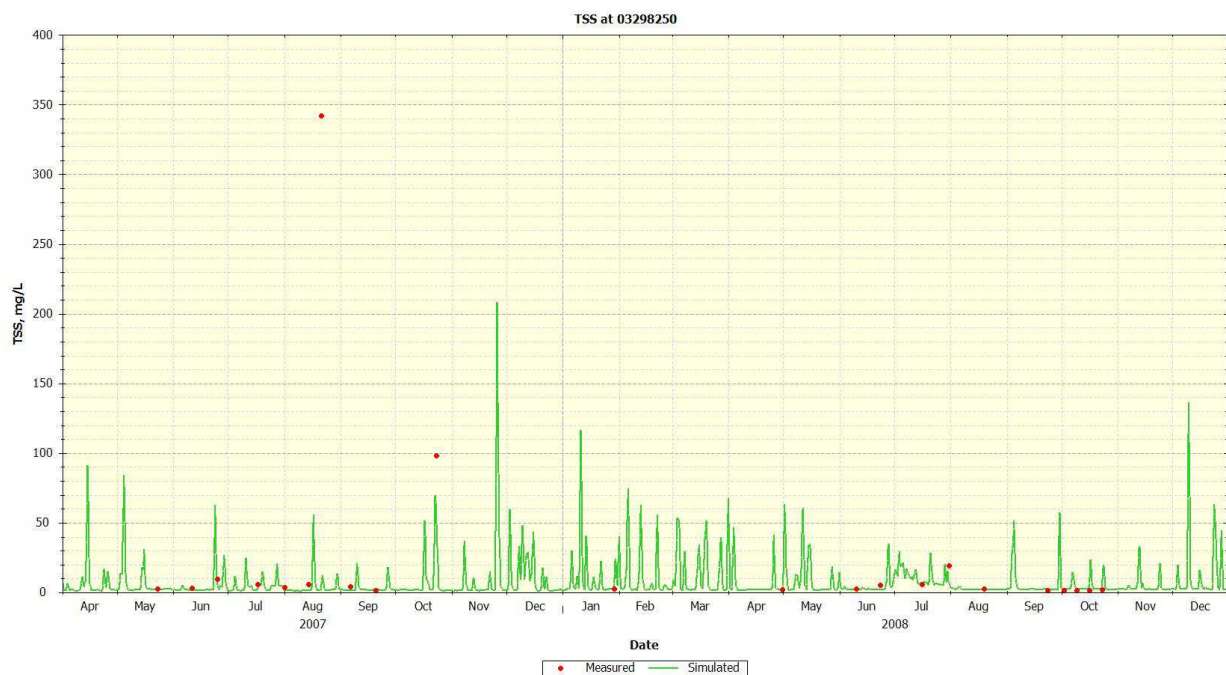


Figure A-285 Modeled vs. Observed TSS (mg/L) at 03298250

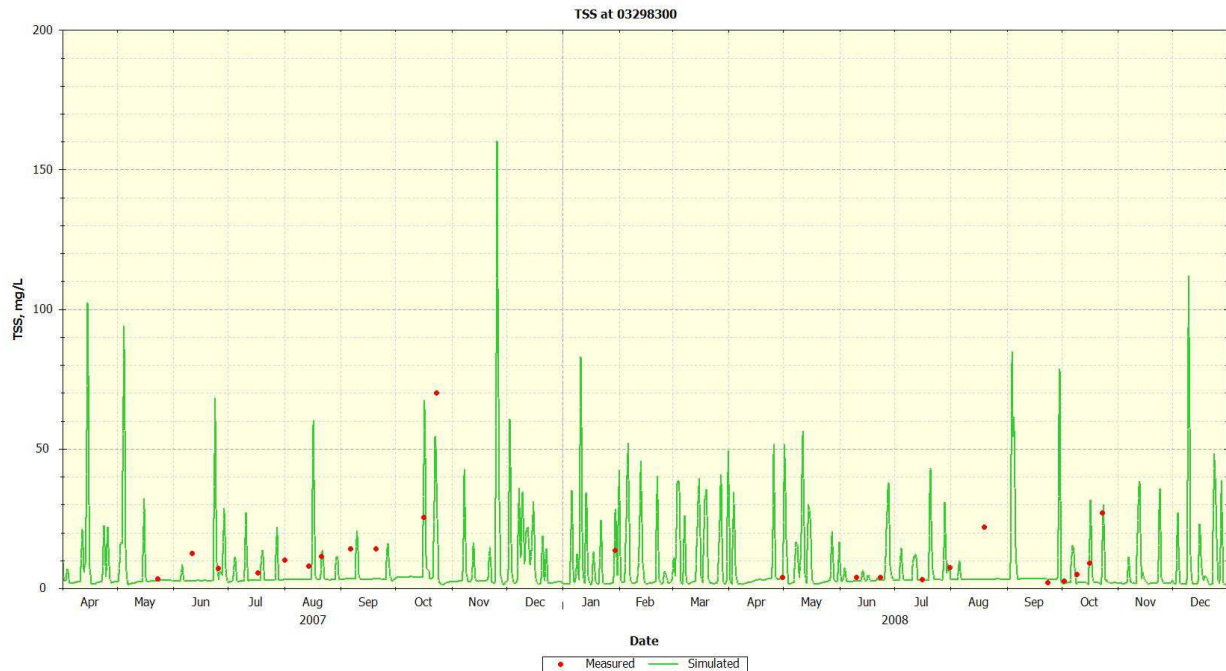


Figure A-286 Modeled vs. Observed TSS (mg/L) at 03298300

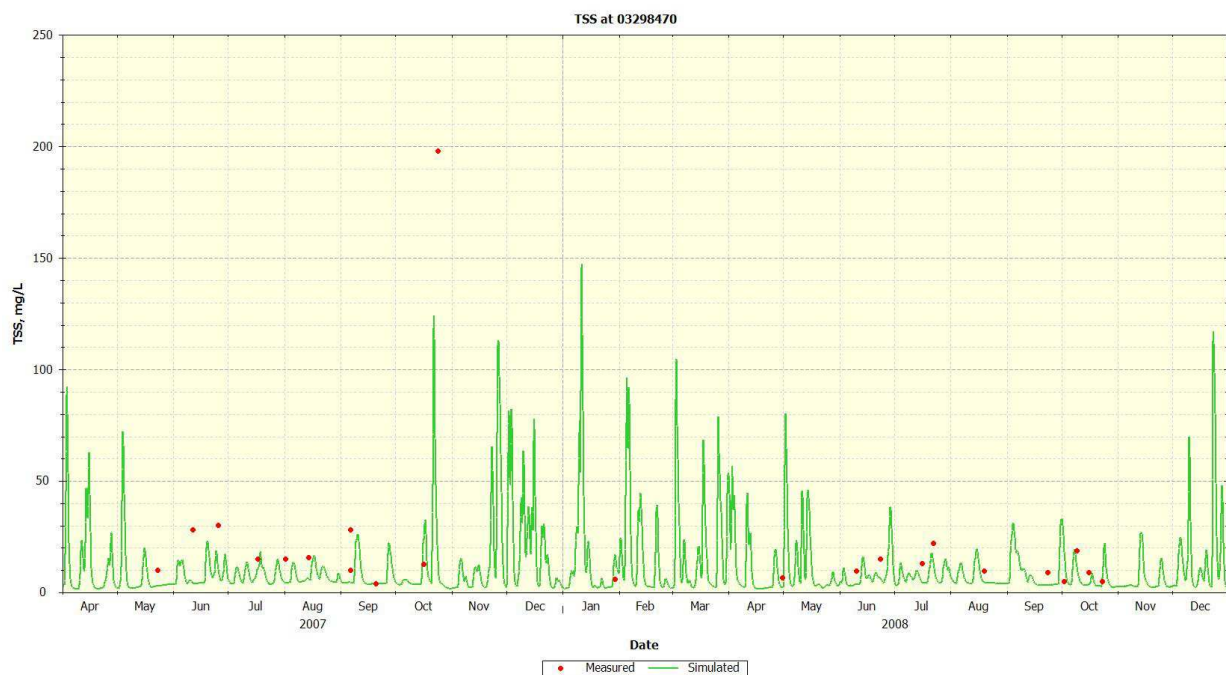
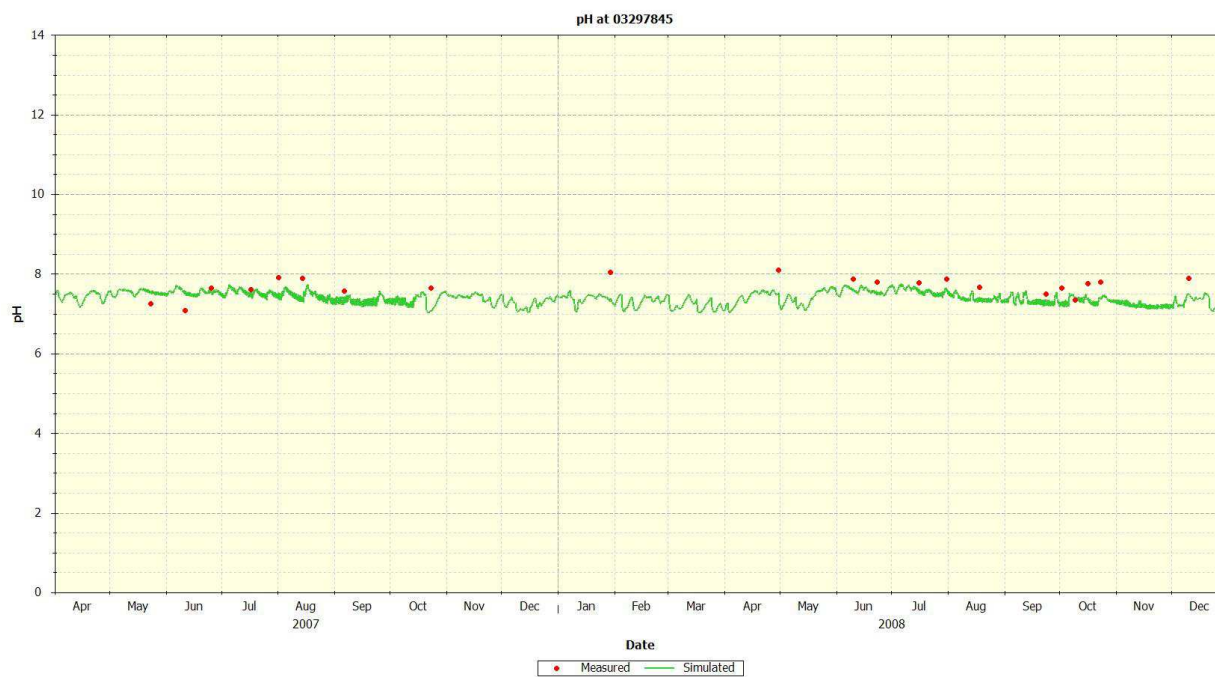
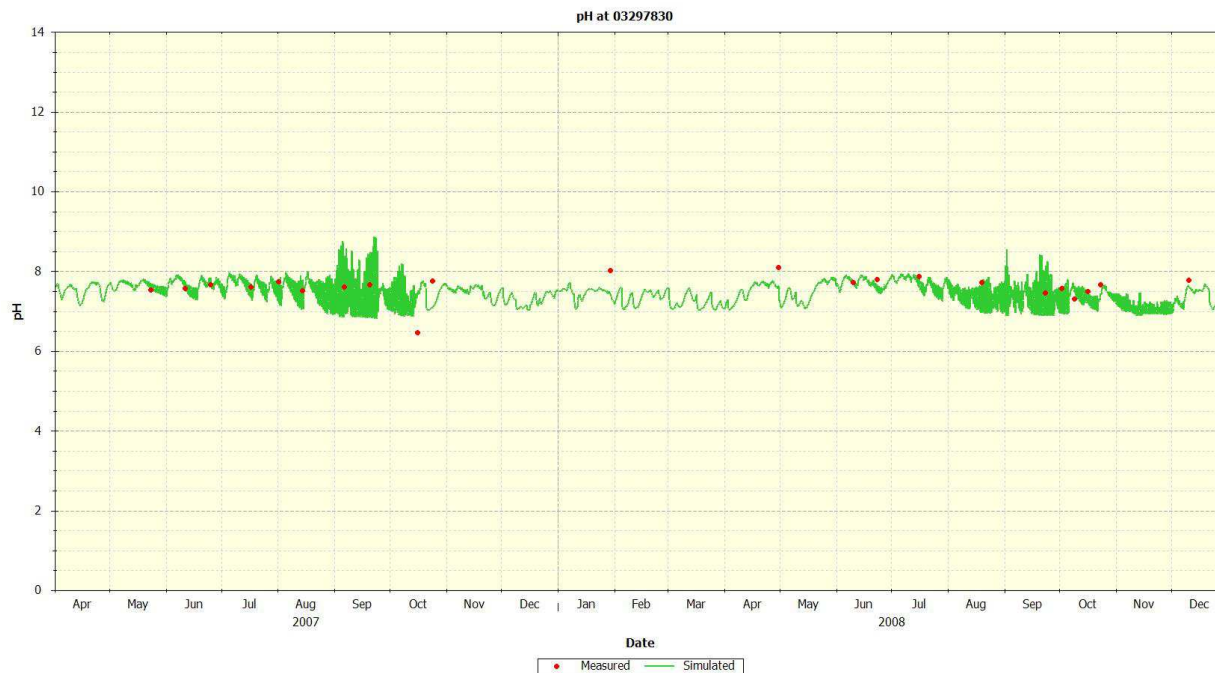


Figure A-287 Modeled vs. Observed TSS (mg/L) at 03298470



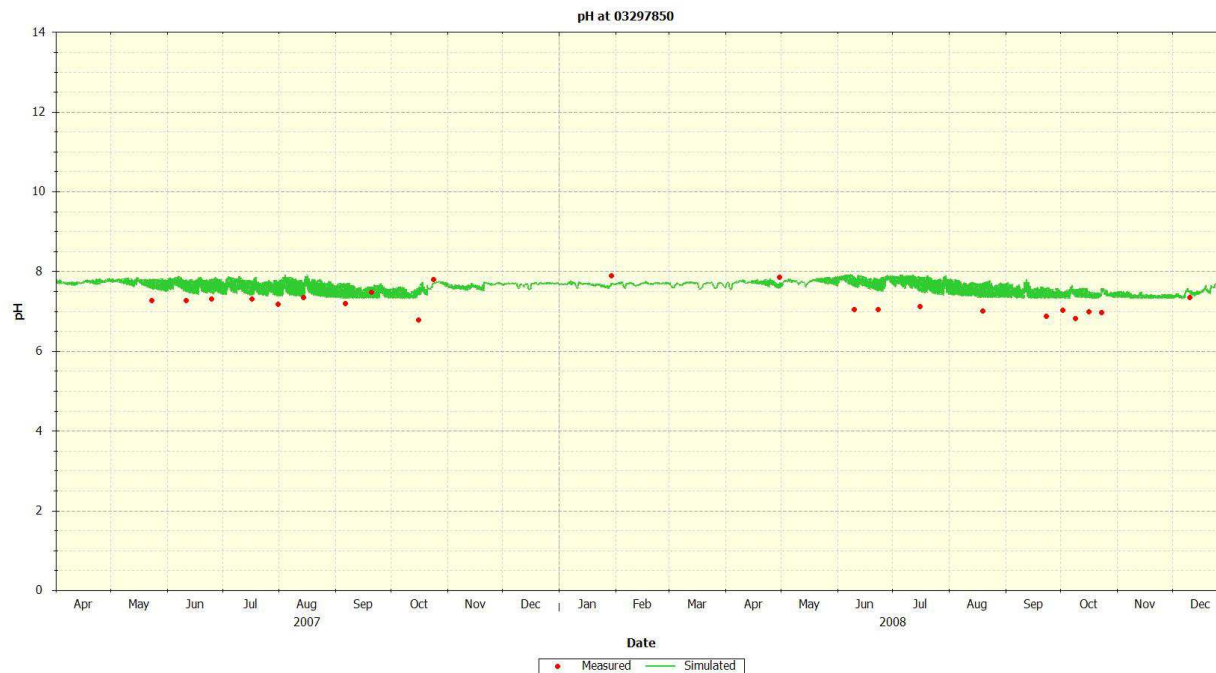


Figure A-290 Modeled vs. Observed pH at 03297850

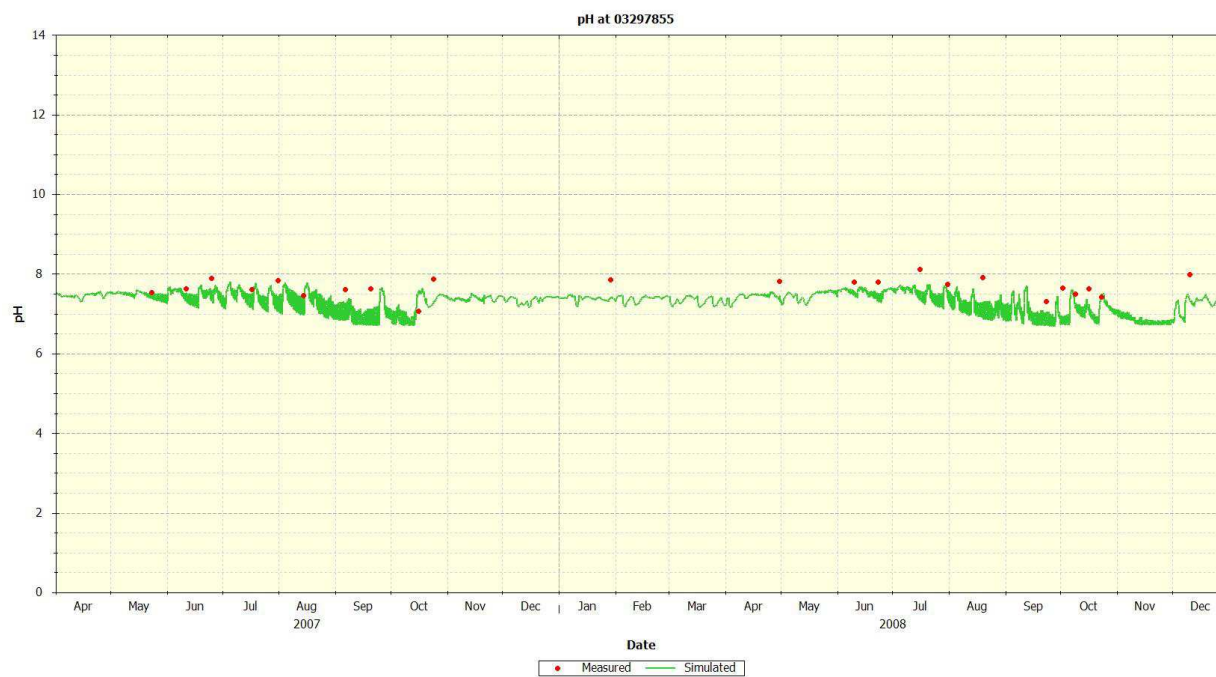


Figure A-291 Modeled vs. Observed pH at 03297855

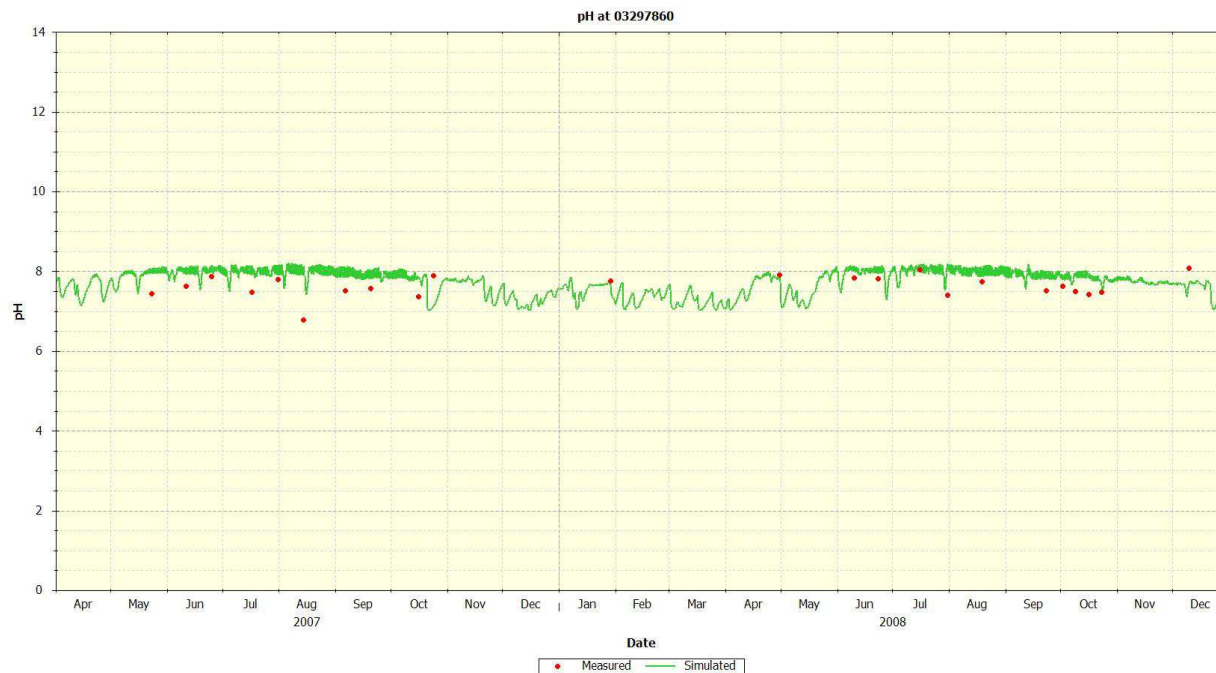


Figure A-292 Modeled vs. Observed pH at 03297860

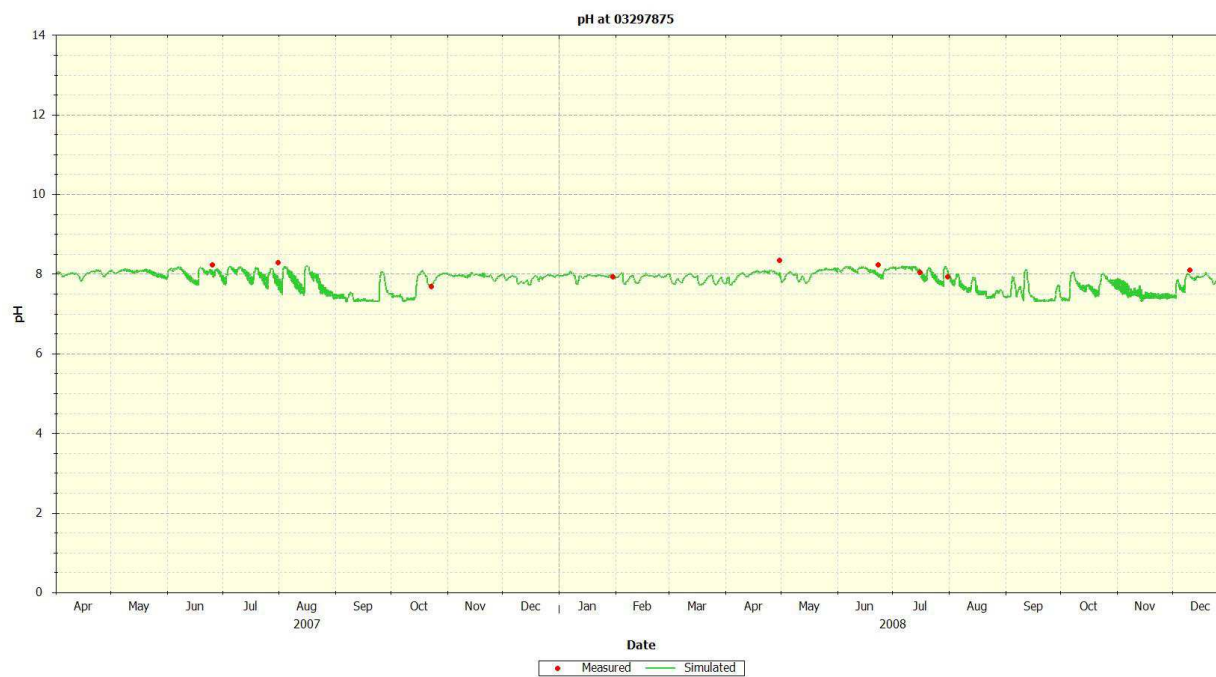
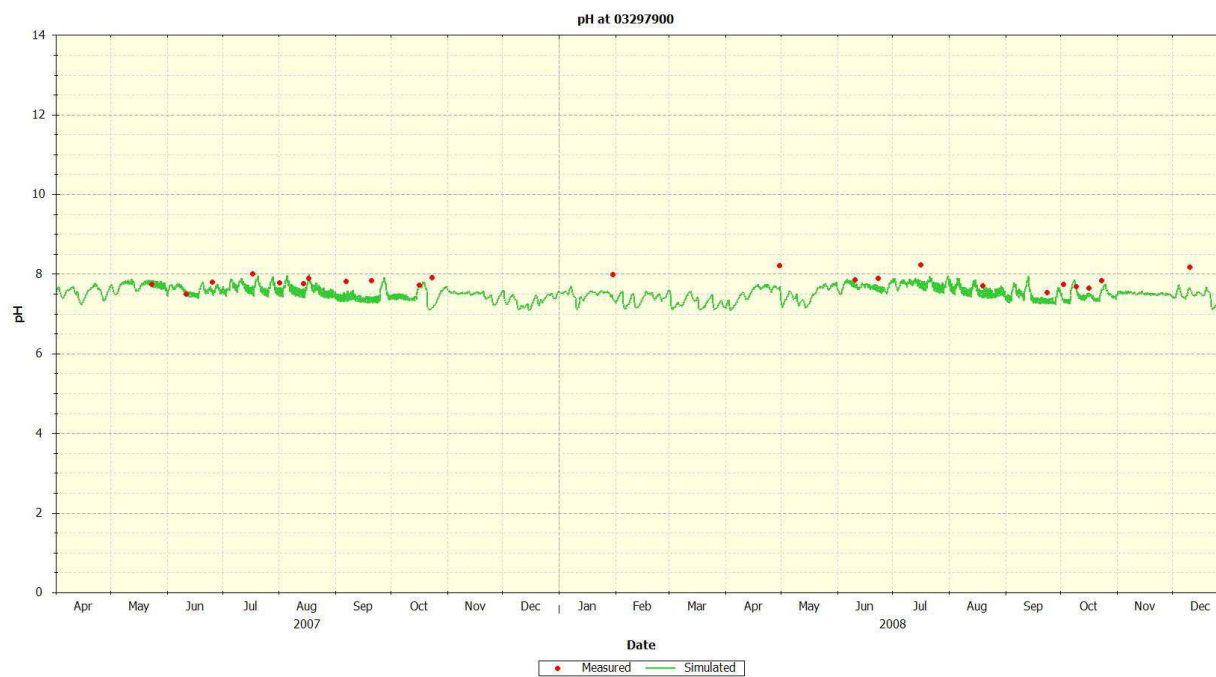
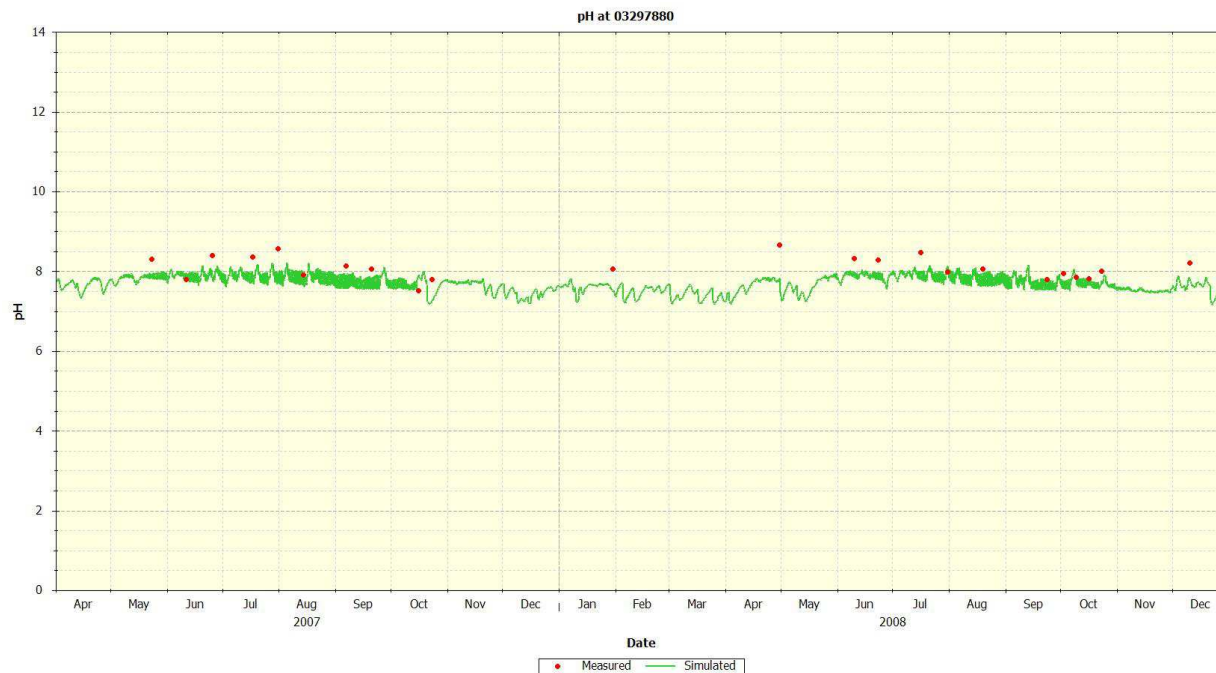


Figure A-293 Modeled vs. Observed pH at 03297875



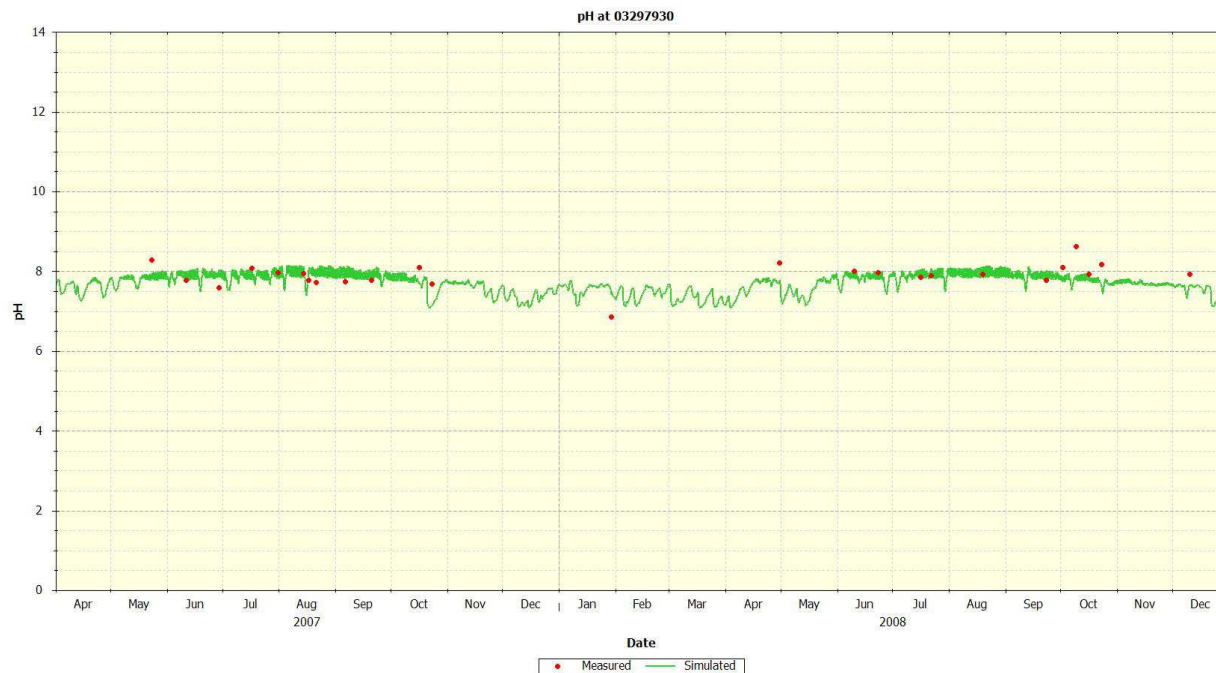


Figure A-296 Modeled vs. Observed pH at 03297930

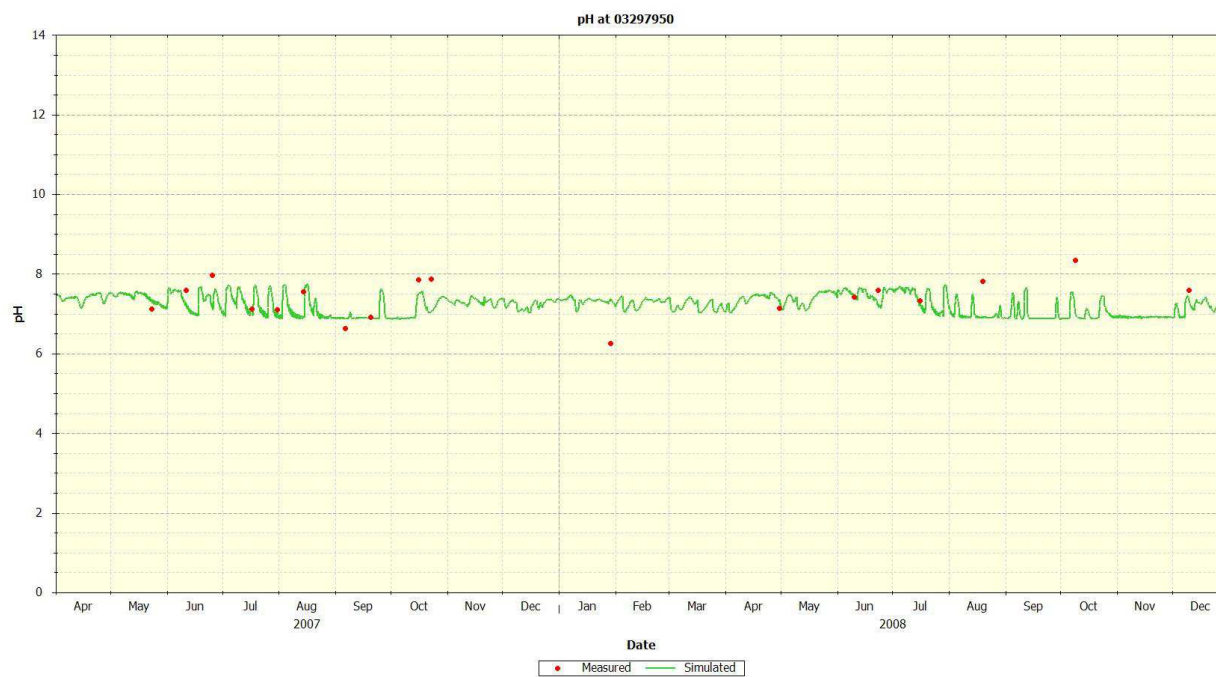


Figure A-297 Modeled vs. Observed pH at 03297950

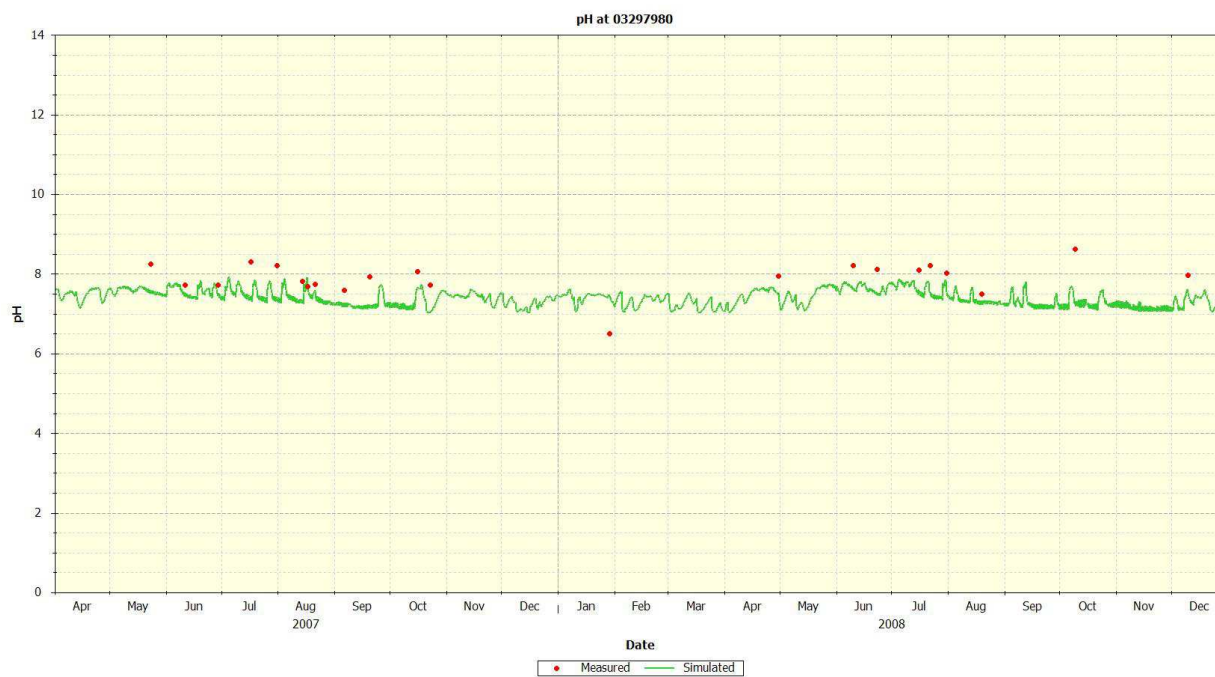
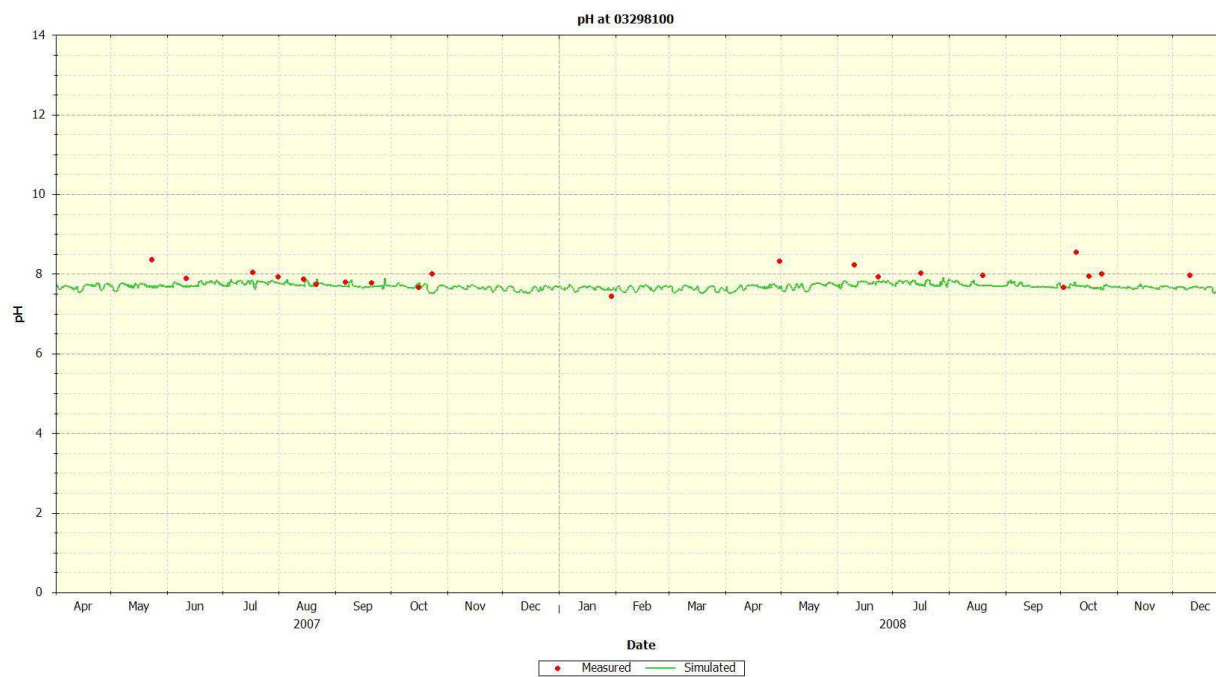
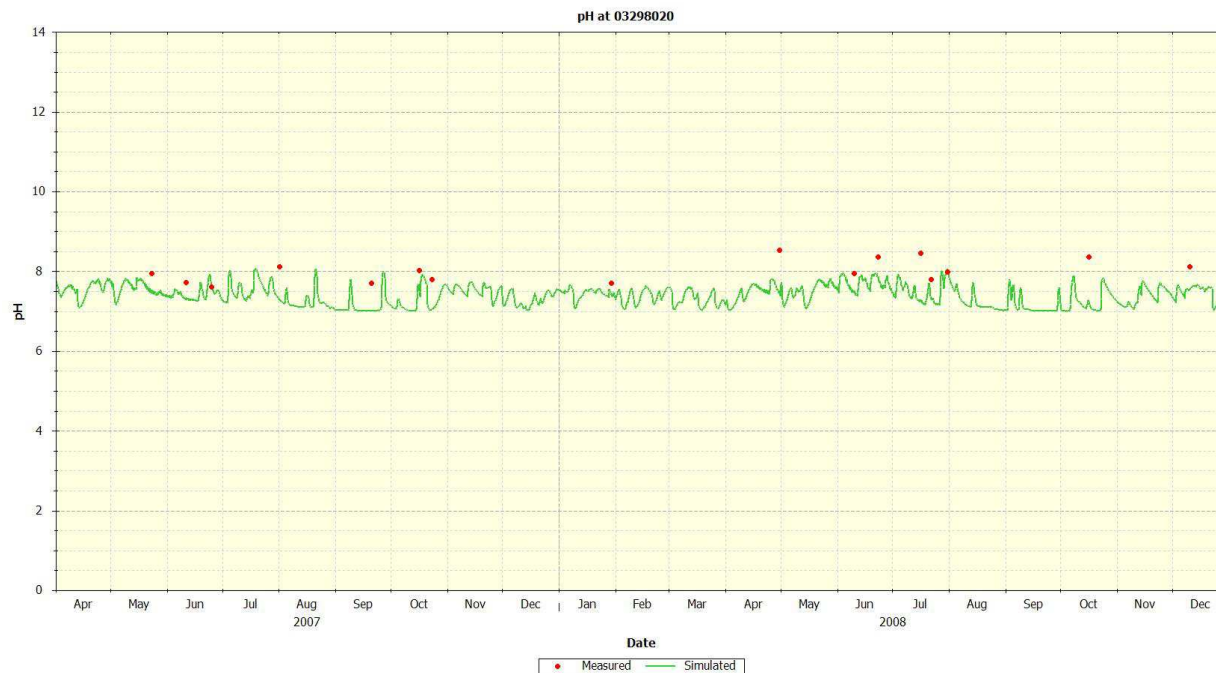




Figure A-300 Modeled vs. Observed pH at 03298000



Figure A-301 Modeled vs. Observed pH at 03298005



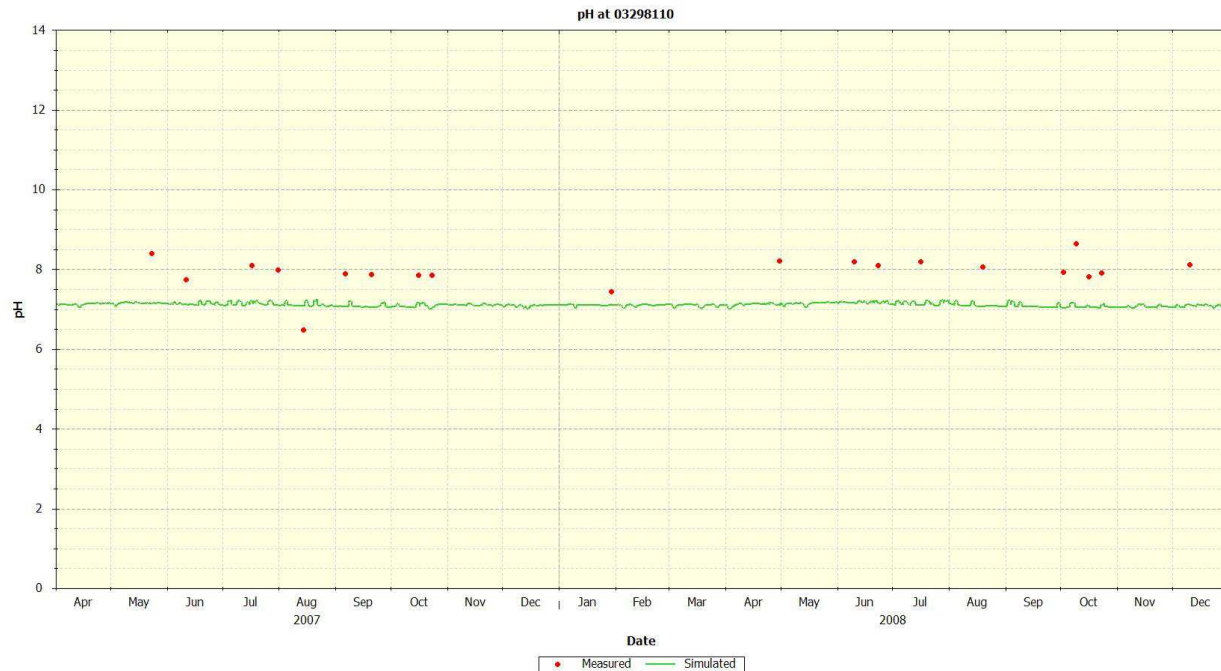






Figure A-308 Modeled vs. Observed pH at 03298150

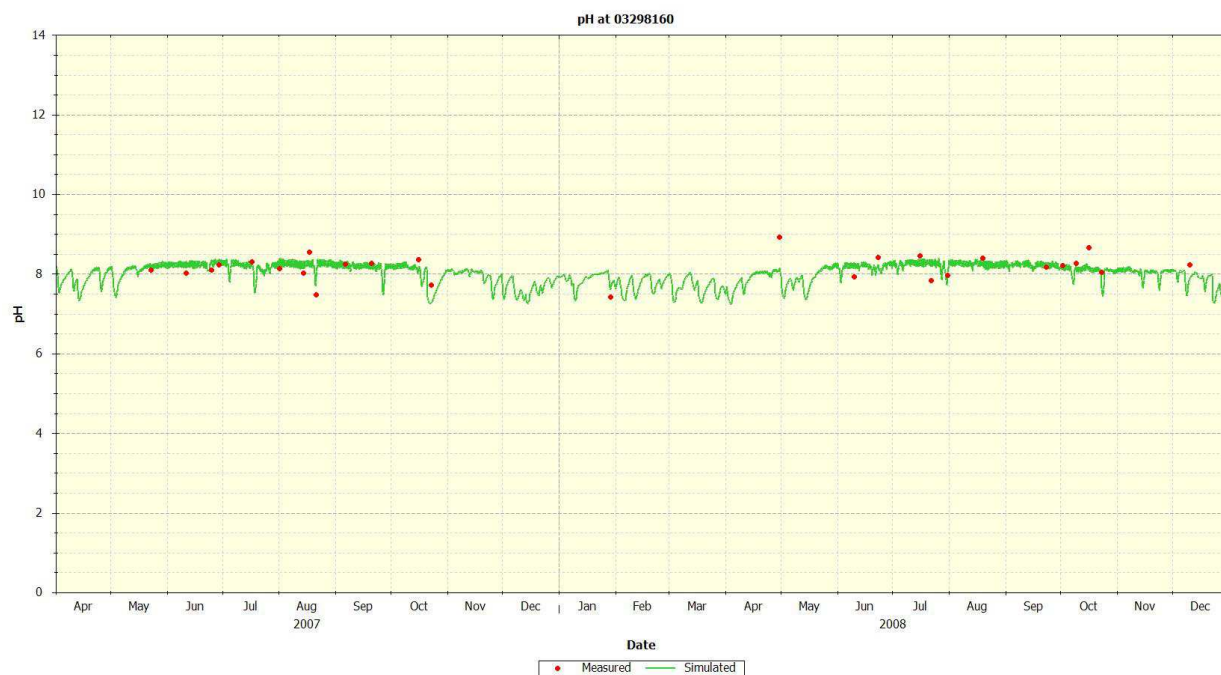
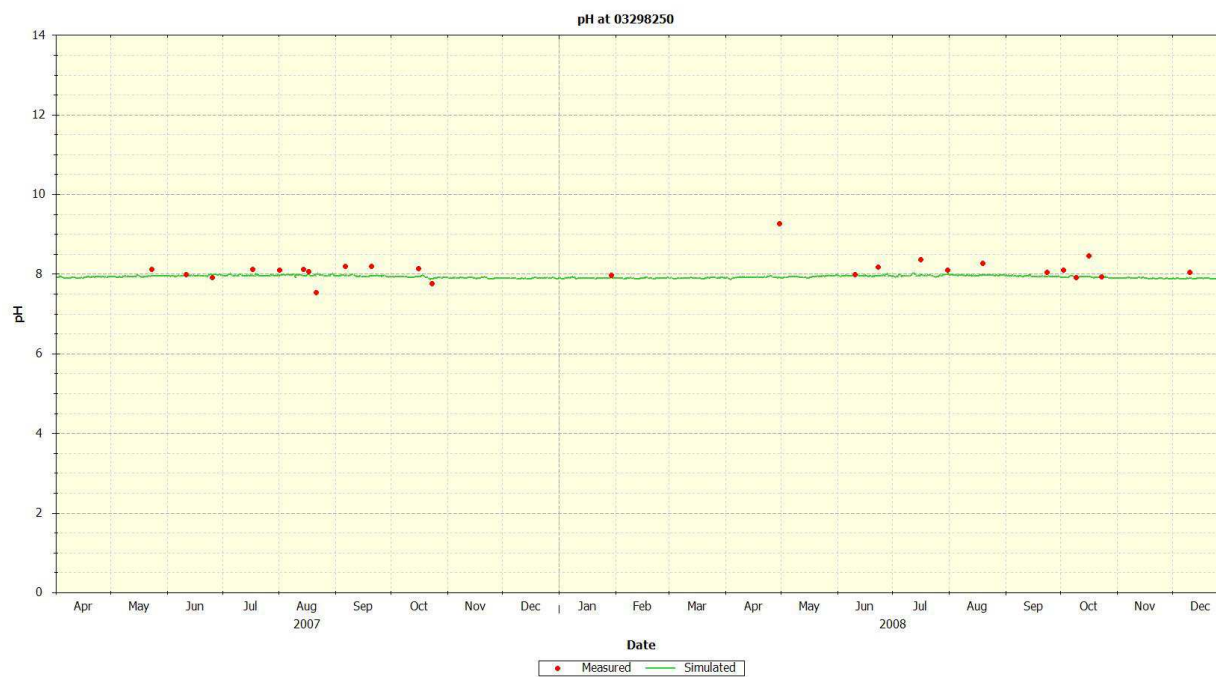
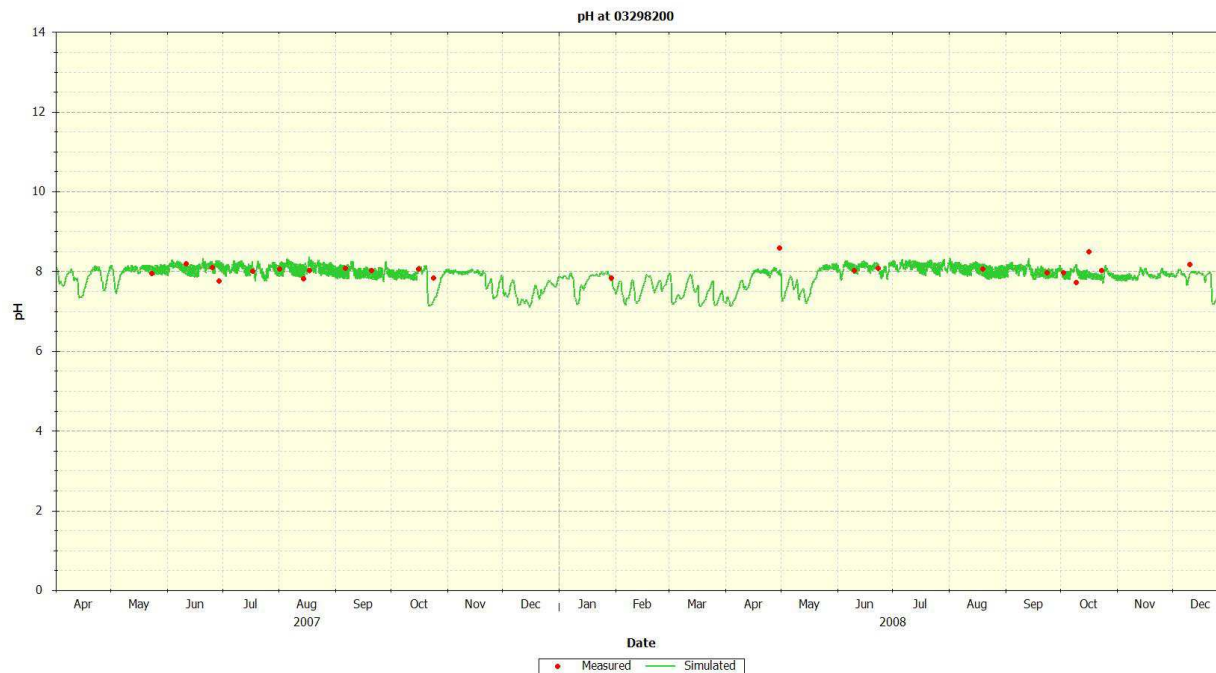


Figure A-309 Modeled vs. Observed pH at 03298160



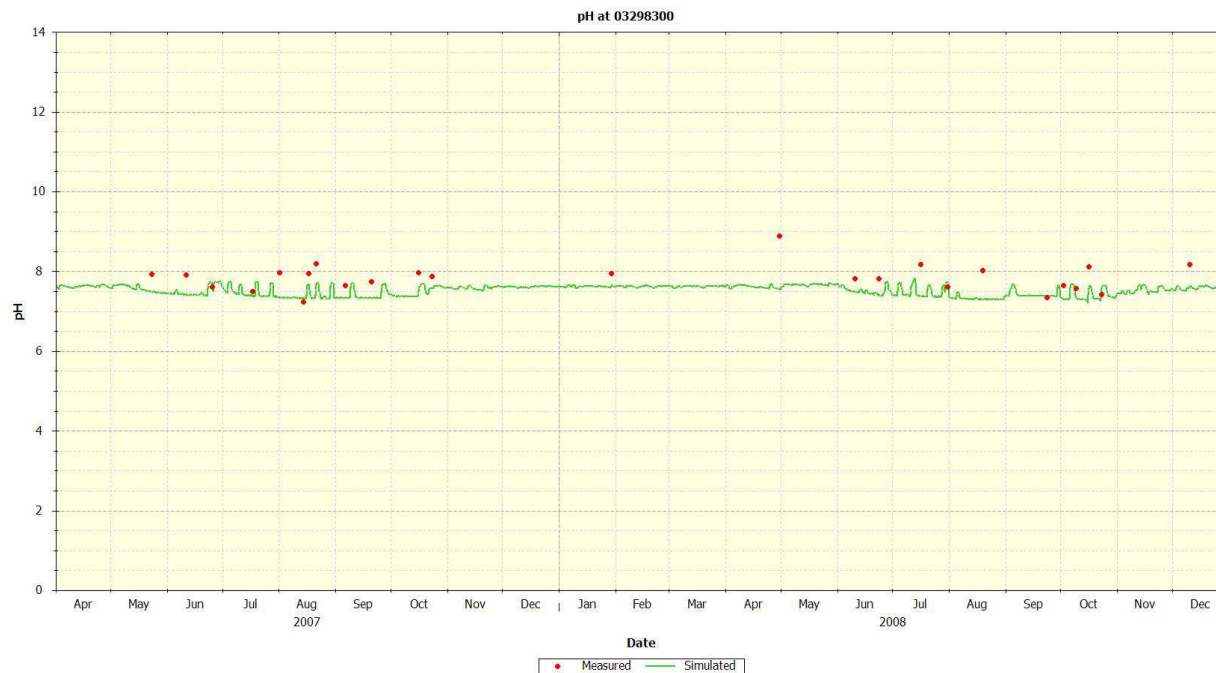


Figure A-312 Modeled vs. Observed pH at 03298300

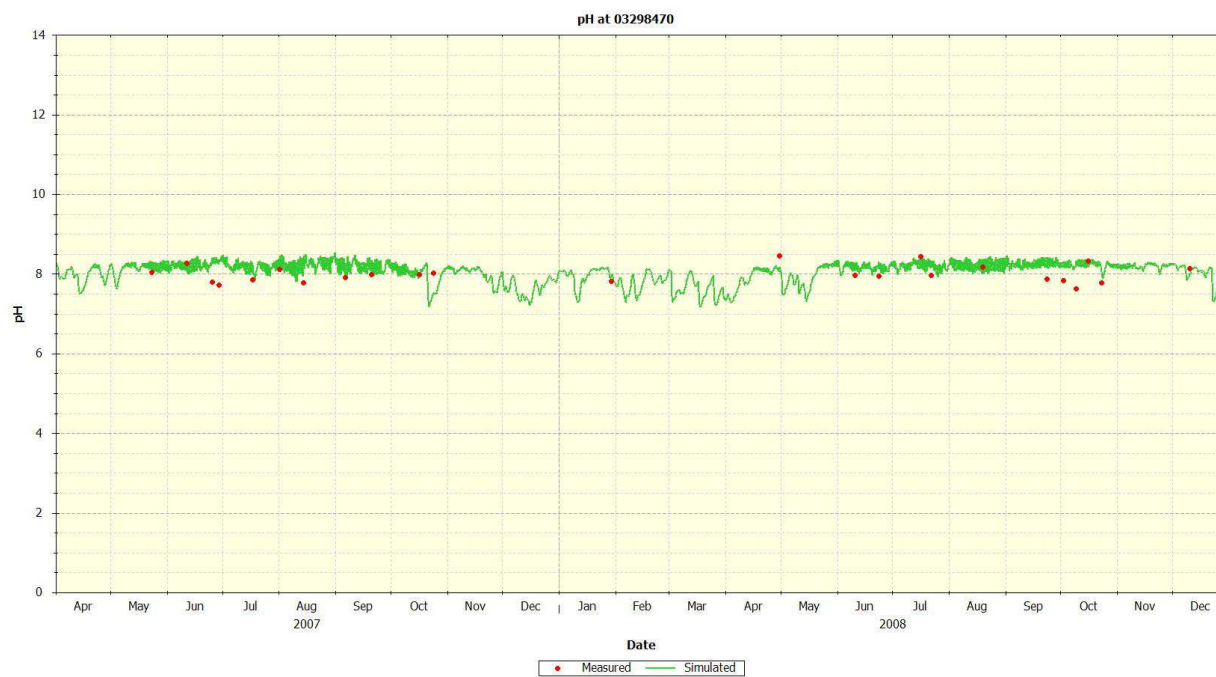


Figure A-313 Modeled vs. Observed pH at 03298470

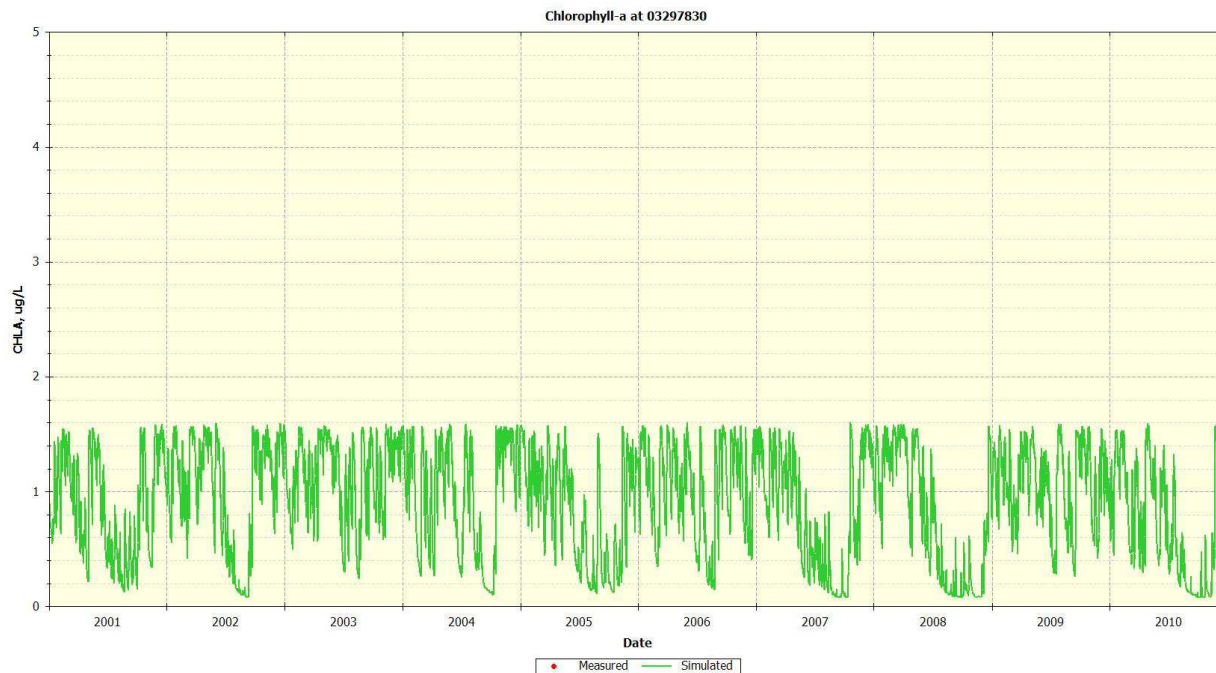


Figure A-314 Modeled Chlorophyll-a (µg/L) at 03297830

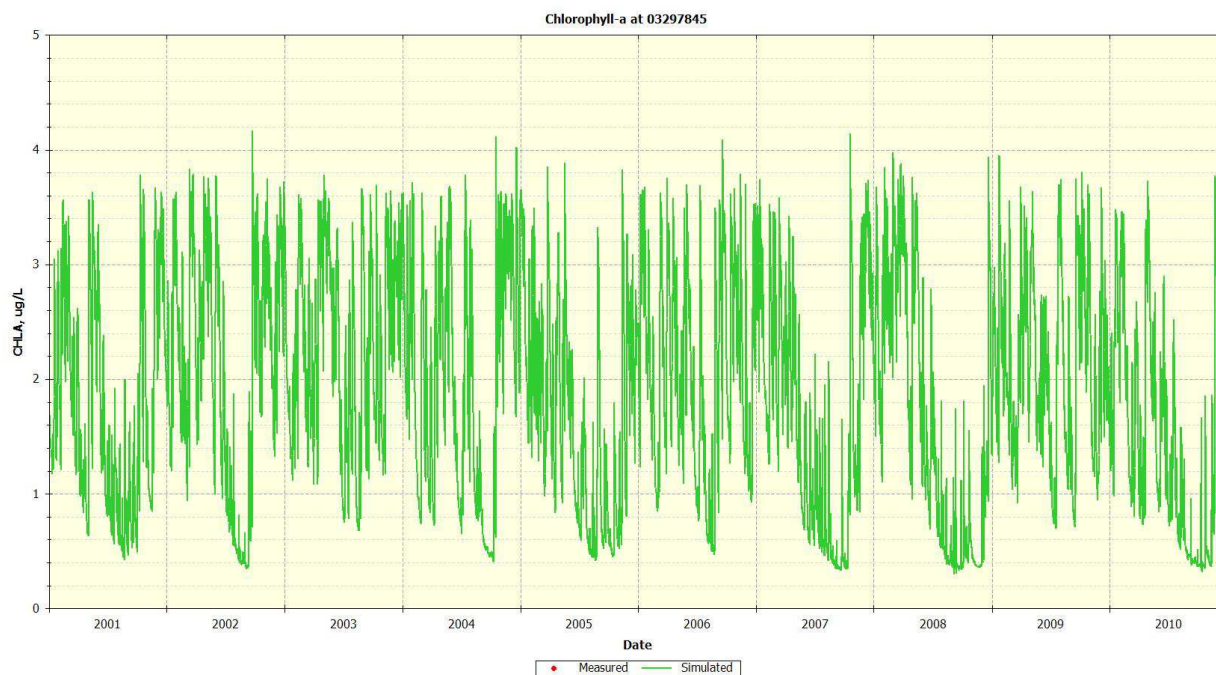


Figure A-315 Modeled Chlorophyll-a (µg/L) at 03297845

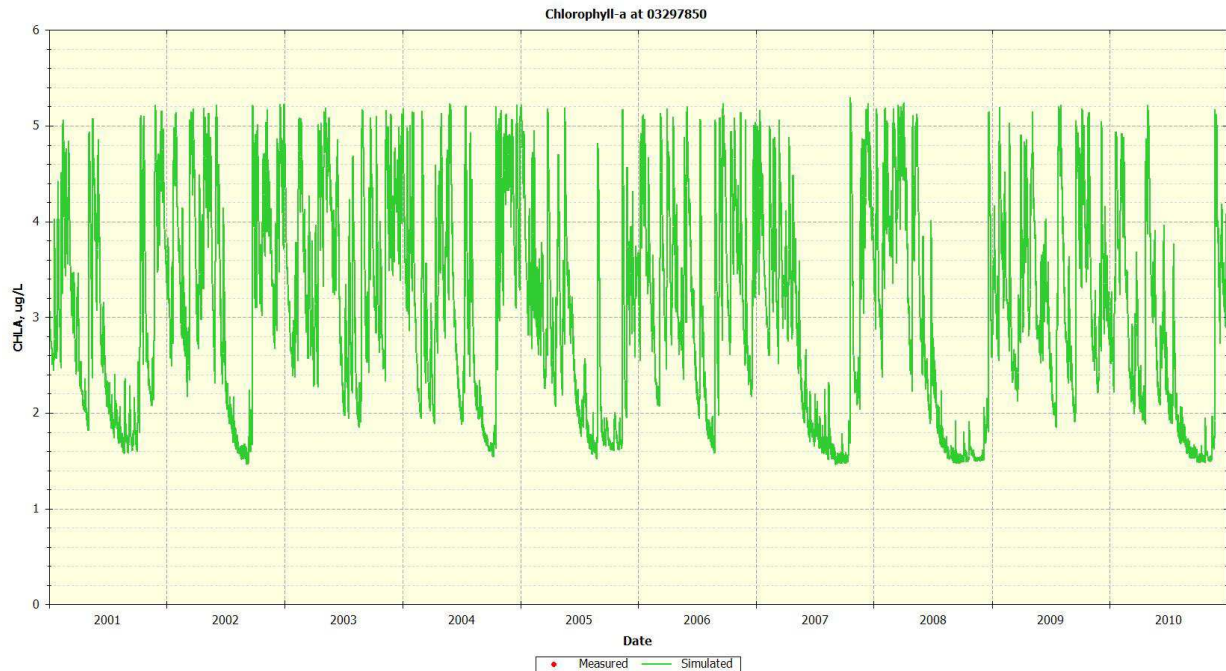


Figure A-316 Modeled Chlorophyll-a (µg/L) at 03297850

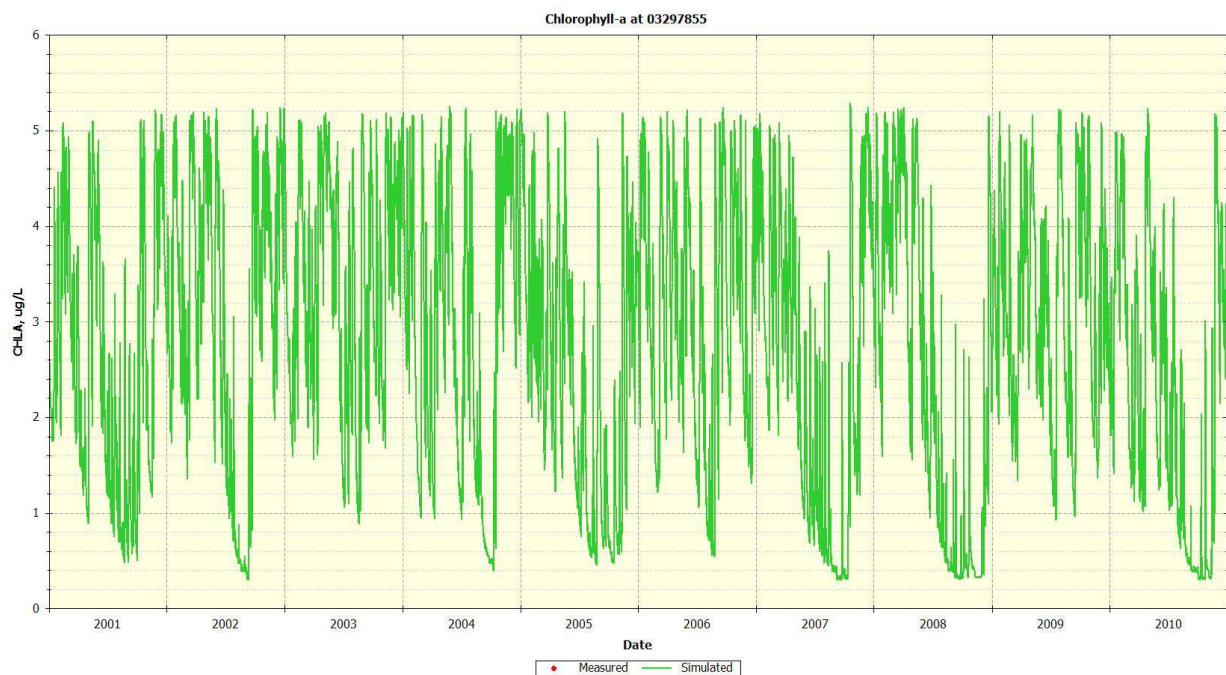


Figure A-317 Modeled Chlorophyll-a (µg/L) at 03297855

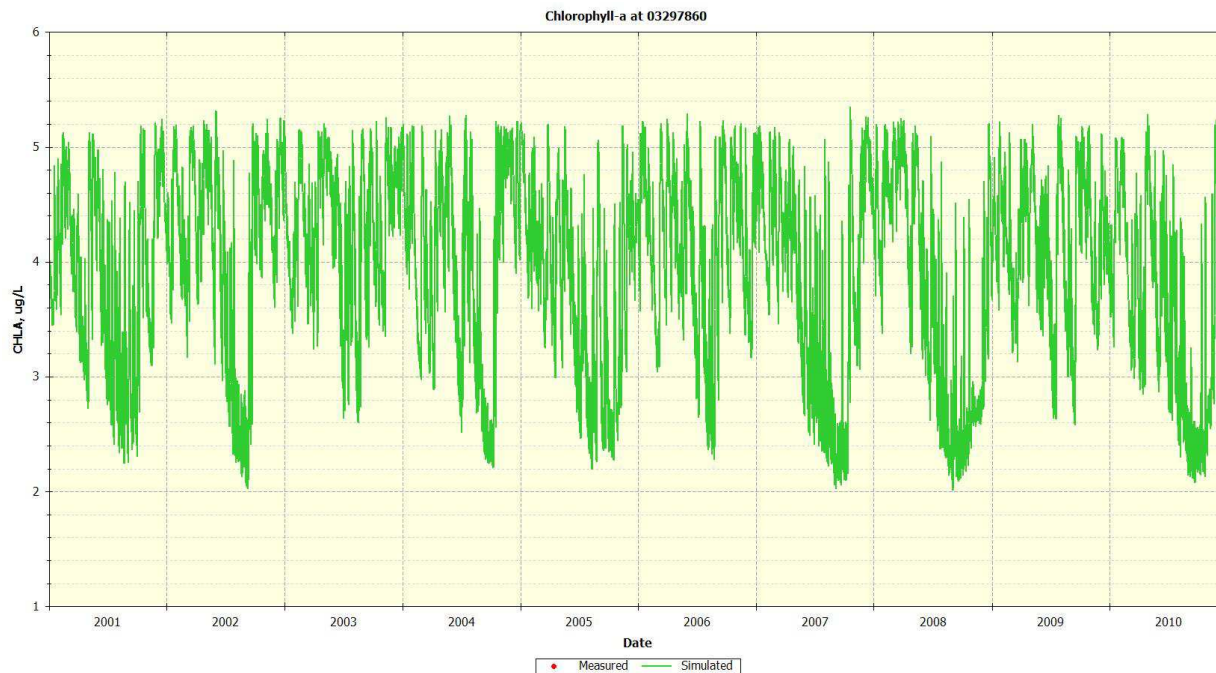


Figure A-318 Modeled Chlorophyll-a (µg/L) at 03297860

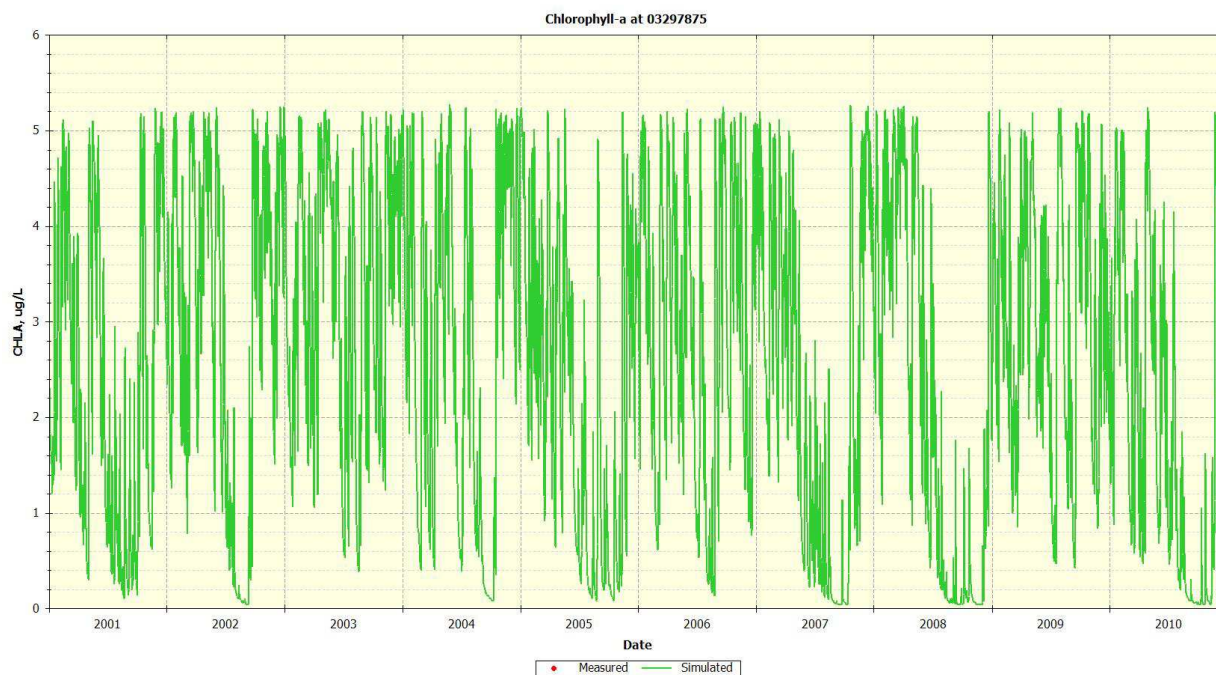


Figure A-319 Modeled Chlorophyll-a (µg/L) at 03297875

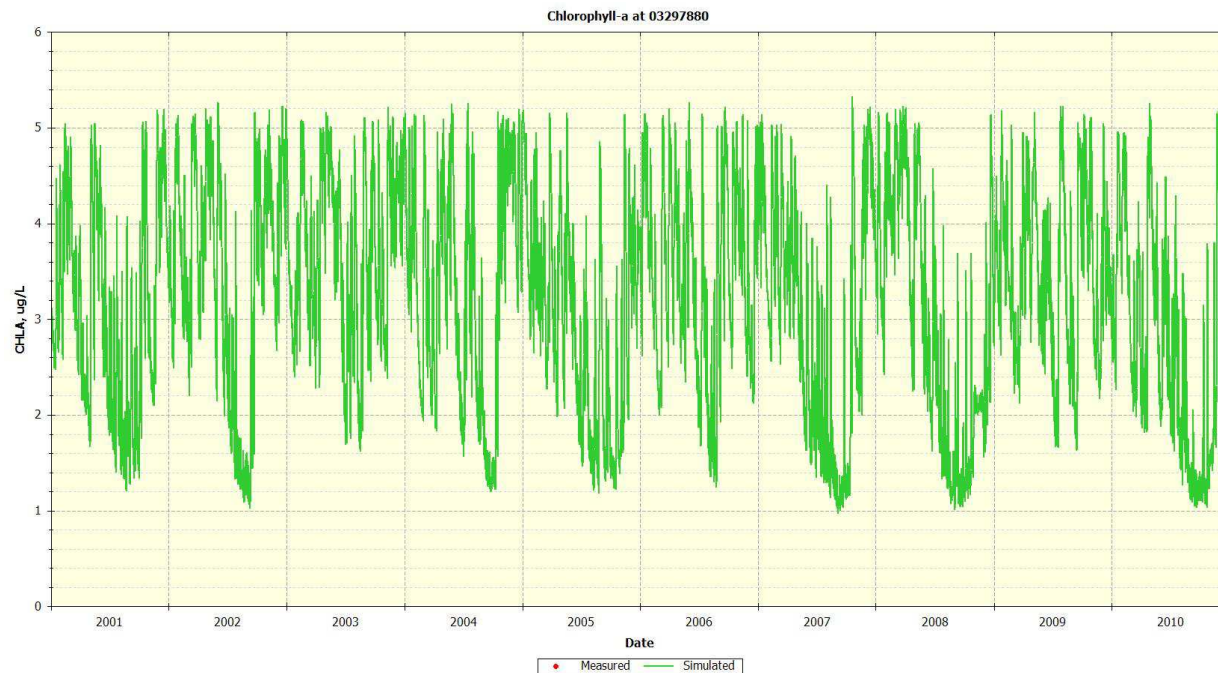


Figure A-320 Modeled Chlorophyll-a (µg/L) at 03297880

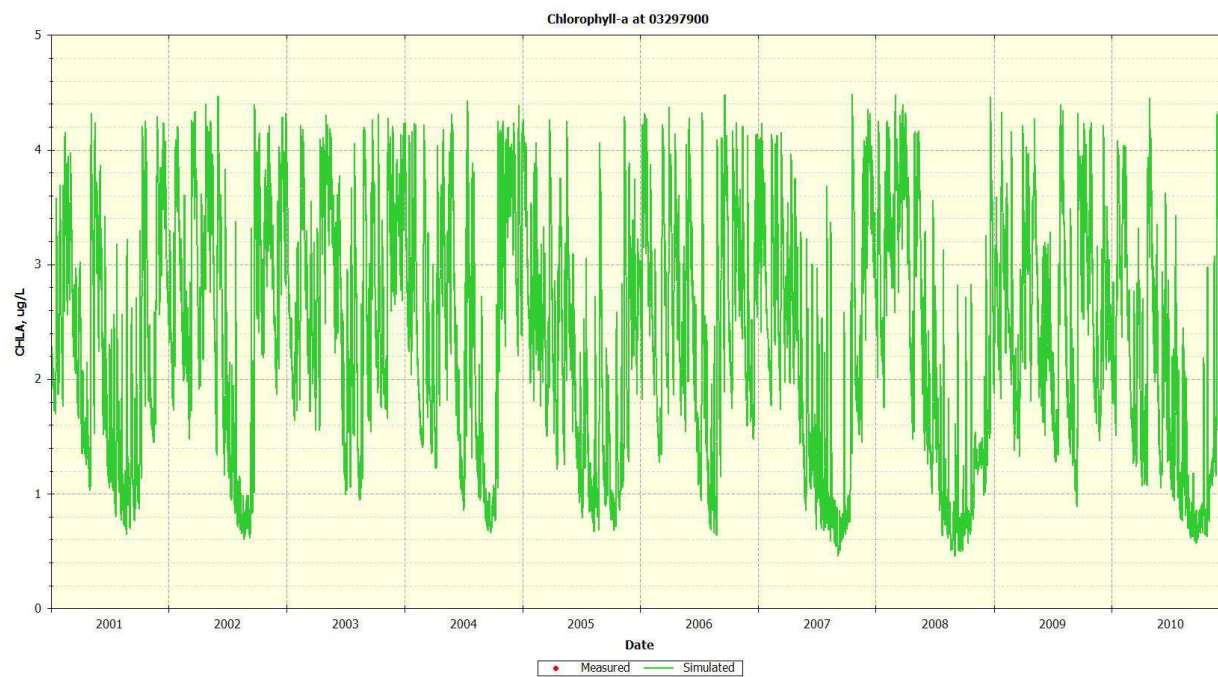


Figure A-321 Modeled Chlorophyll-a (µg/L) at 03297900

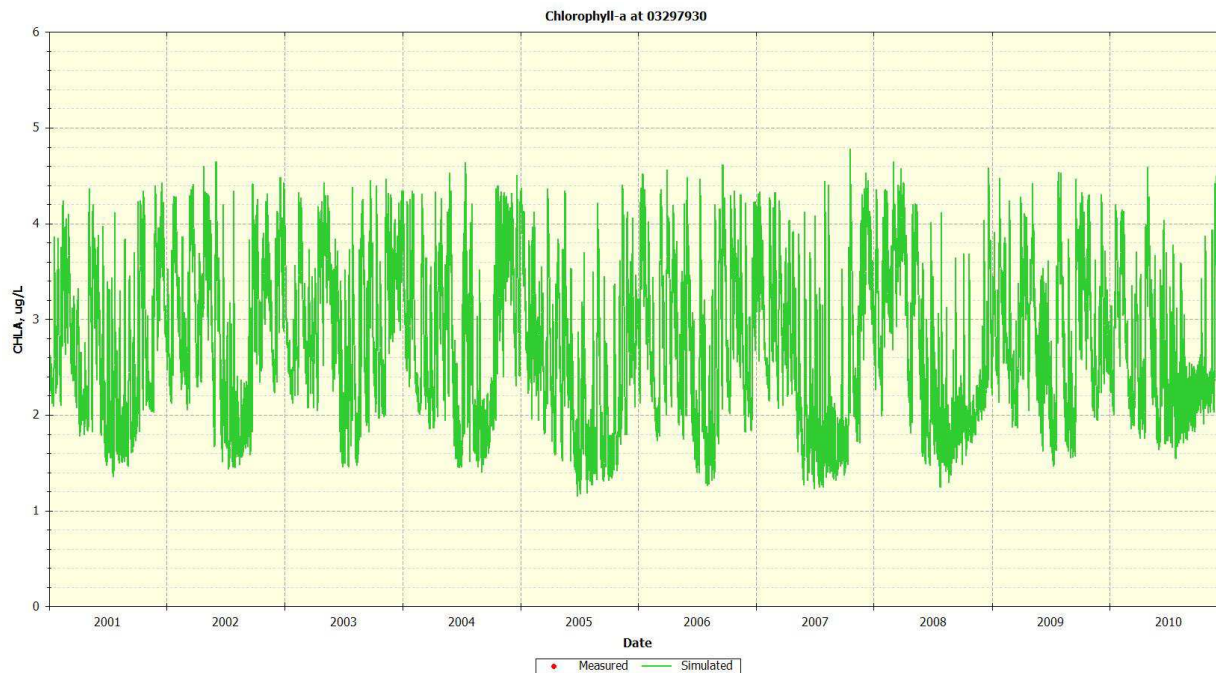


Figure A-322 Modeled Chlorophyll-a (µg/L) at 03297930

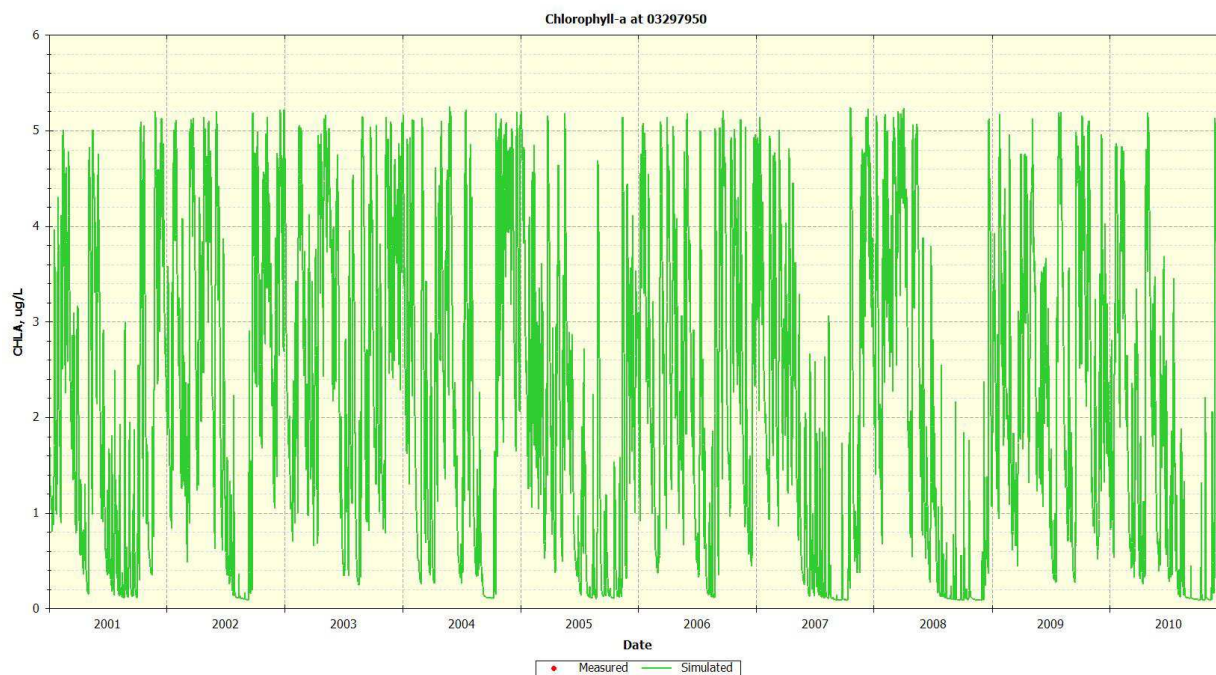


Figure A-323 Modeled Chlorophyll-a (µg/L) at 03297950

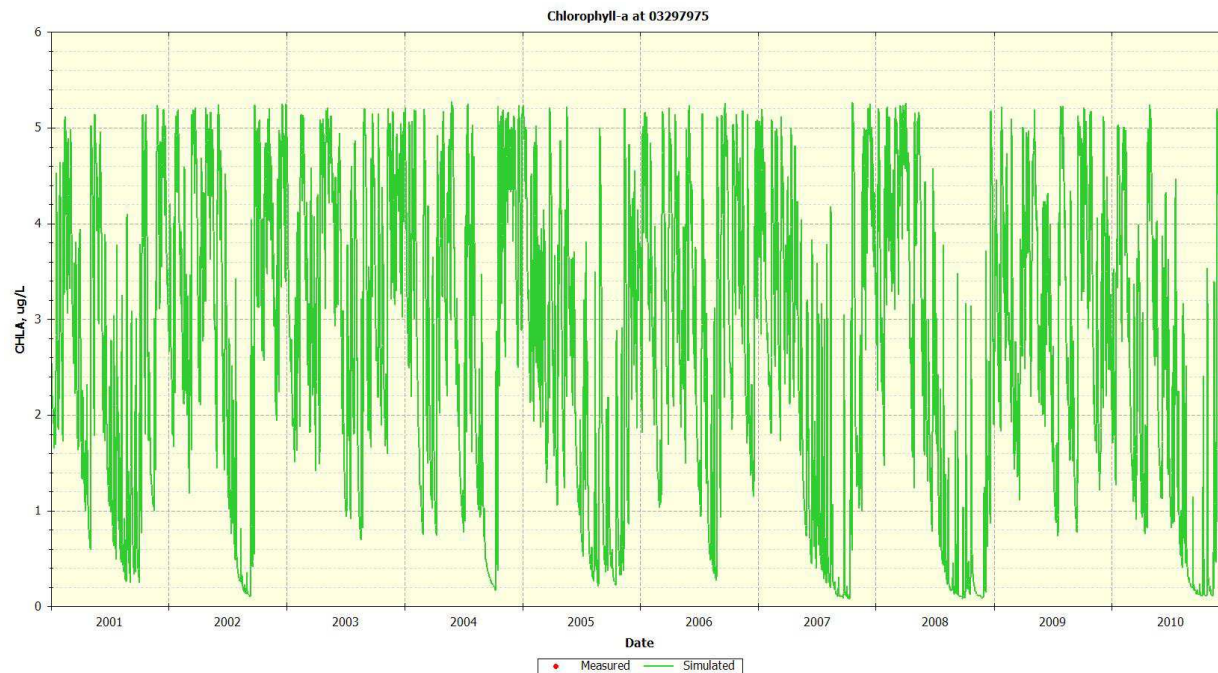


Figure A-324 Modeled Chlorophyll-a (µg/L) at 03297975

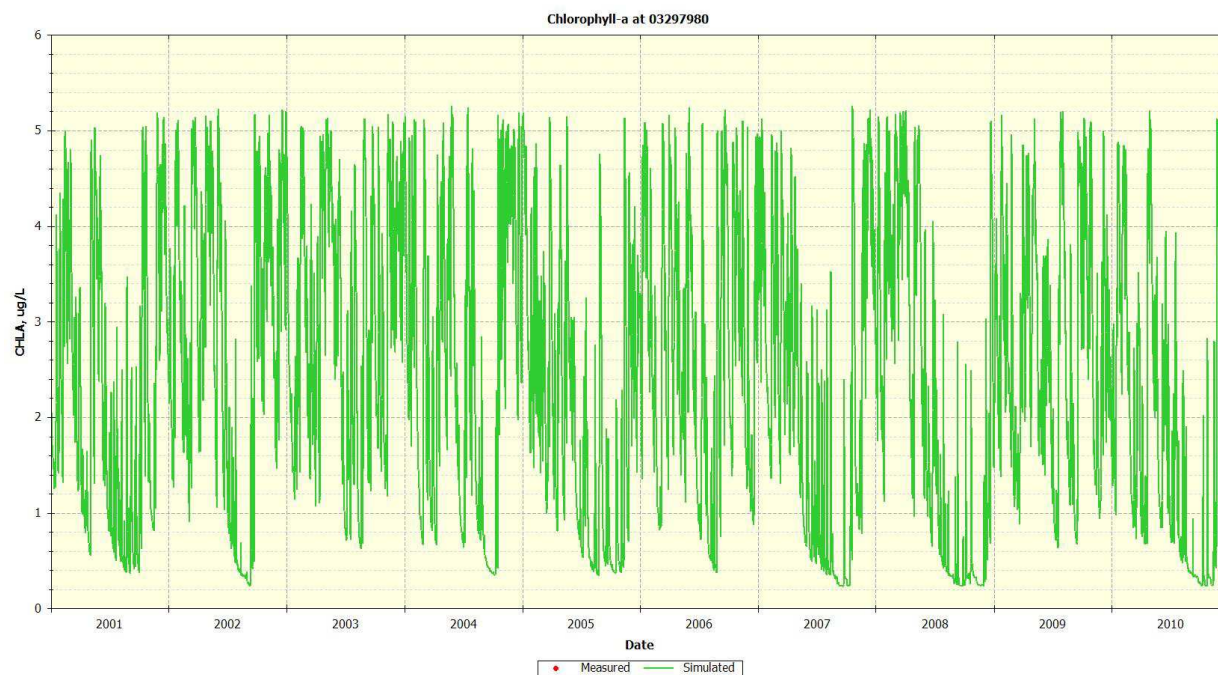


Figure A-325 Modeled Chlorophyll-a (µg/L) at 03297980

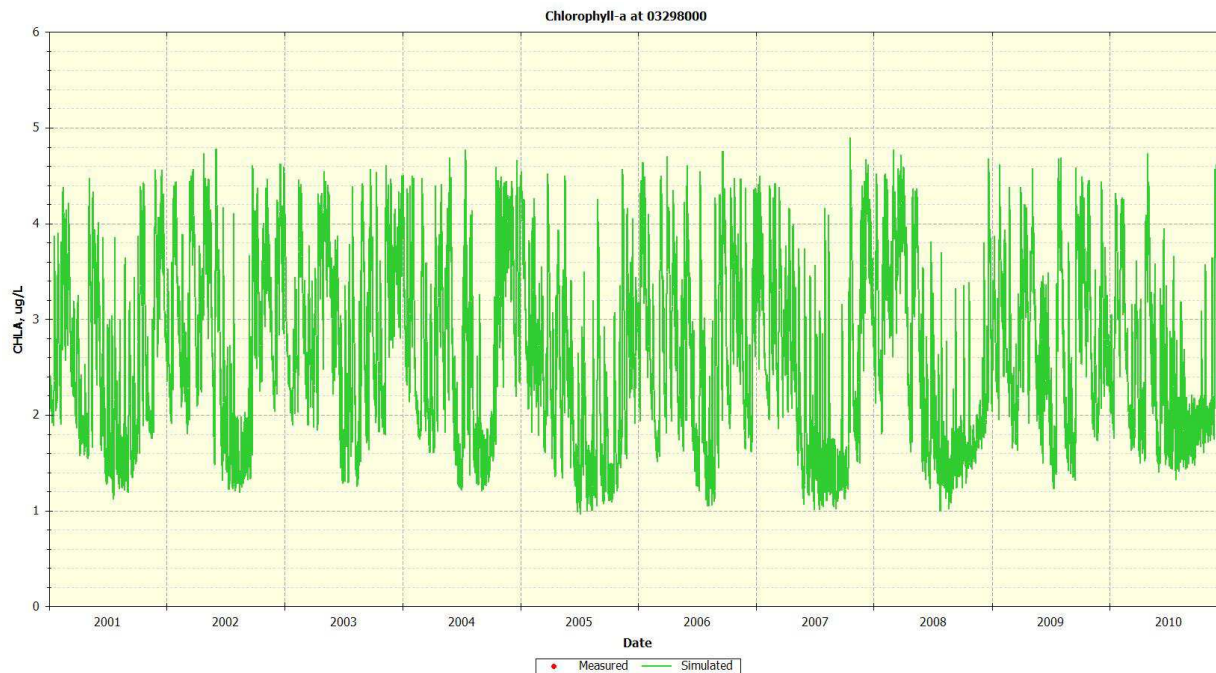


Figure A-326 Modeled Chlorophyll-a (µg/L) at 03298000

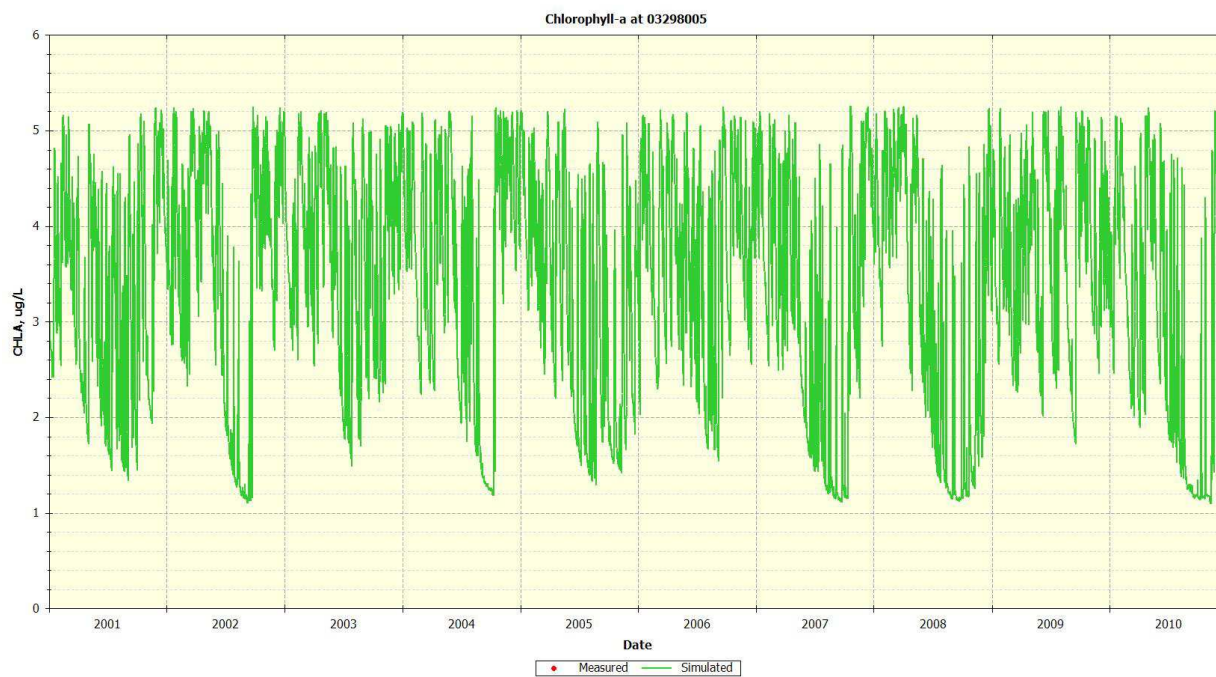


Figure A-327 Modeled Chlorophyll-a (µg/L) at 03298005

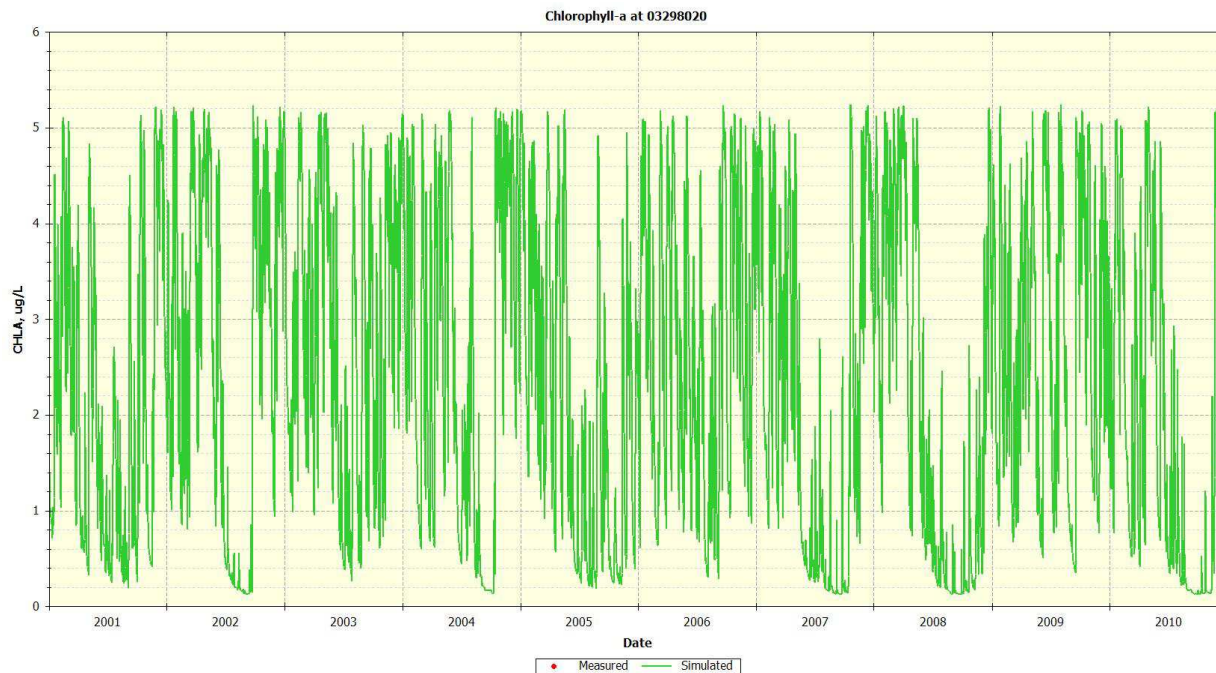


Figure A-328 Modeled Chlorophyll-a (µg/L) at 03298020

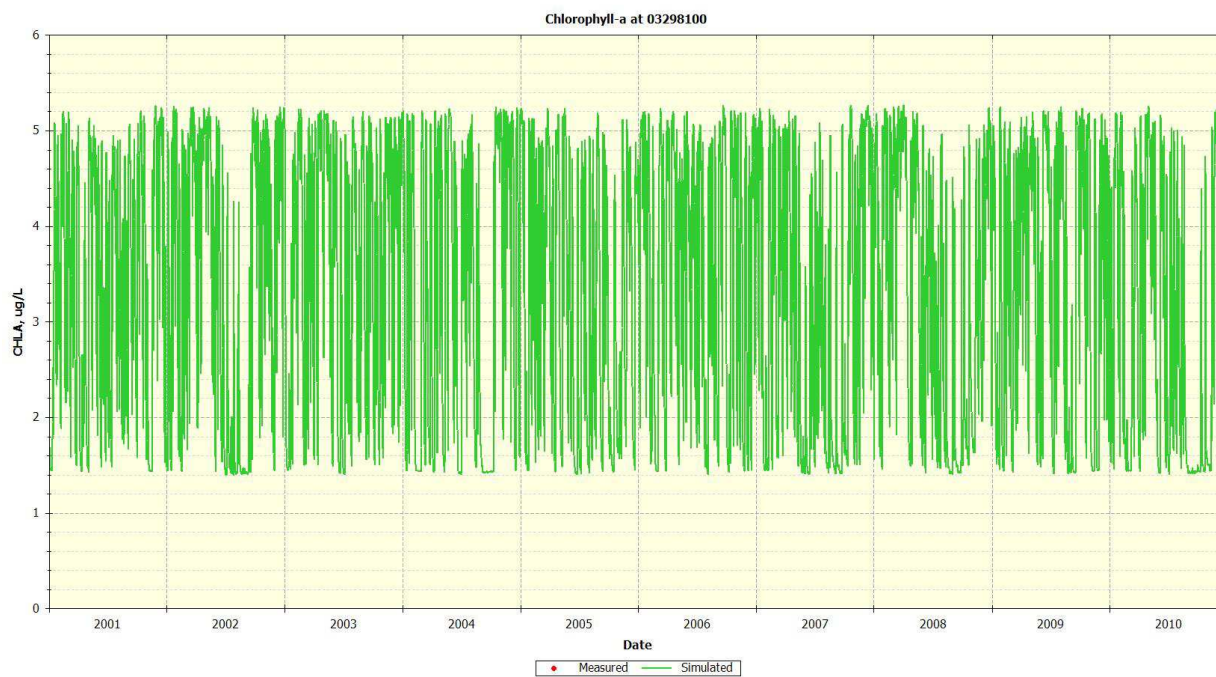


Figure A-329 Modeled Chlorophyll-a (µg/L) at 03298100

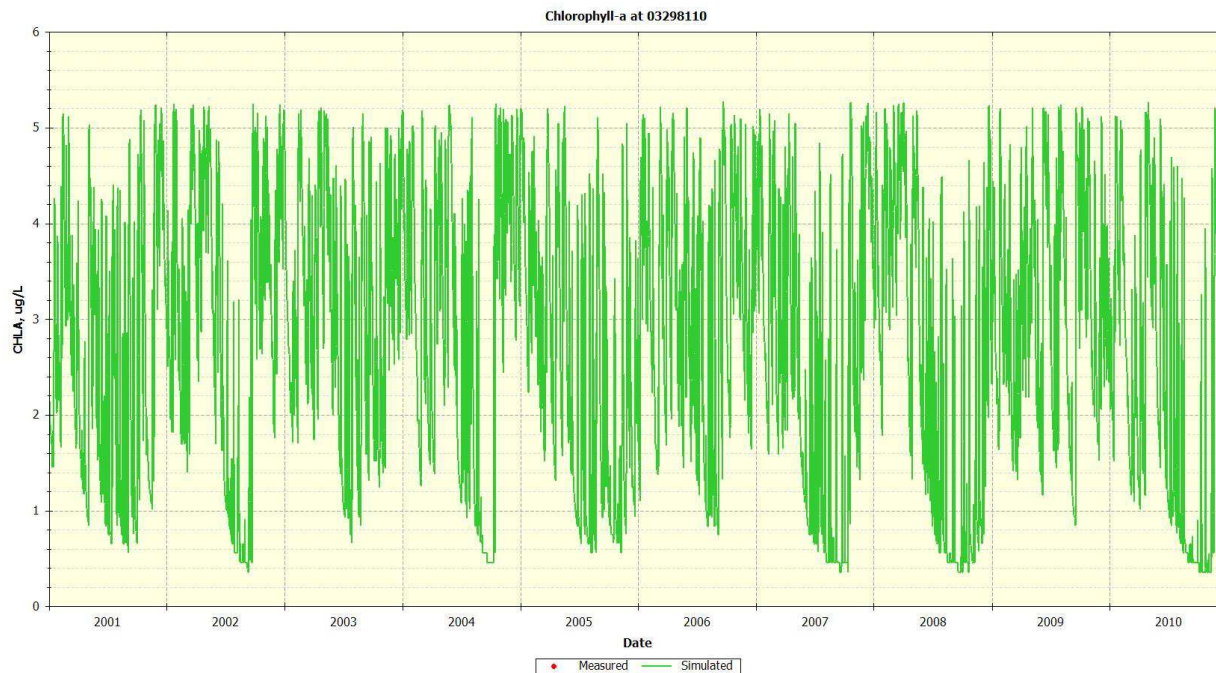


Figure A-330 Modeled Chlorophyll-a (µg/L) at 03298110

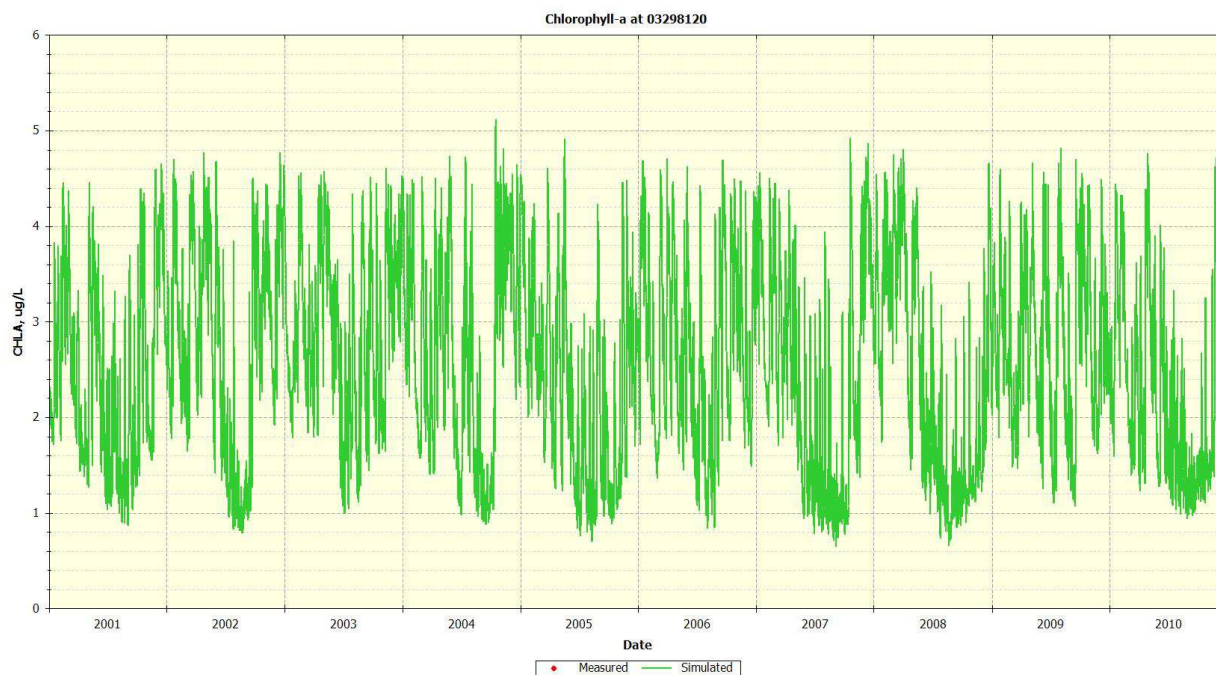


Figure A-331 Modeled Chlorophyll-a (µg/L) at 03298120

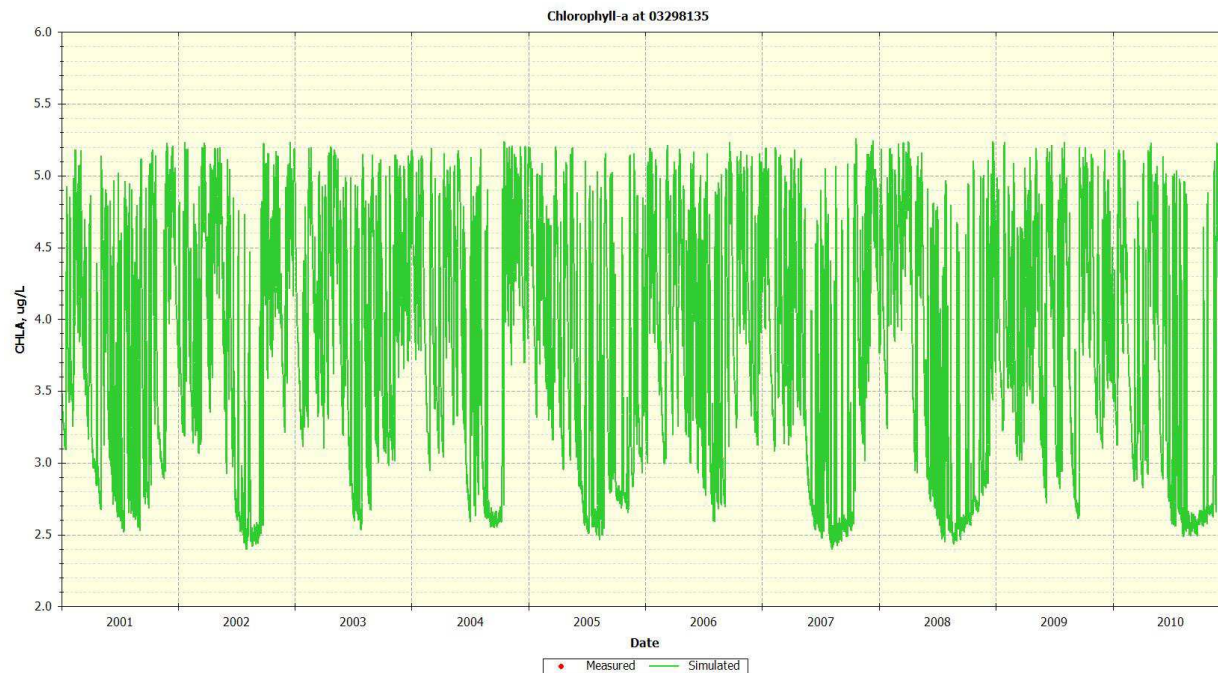


Figure A-332 Modeled Chlorophyll-a (µg/L) at 03298135

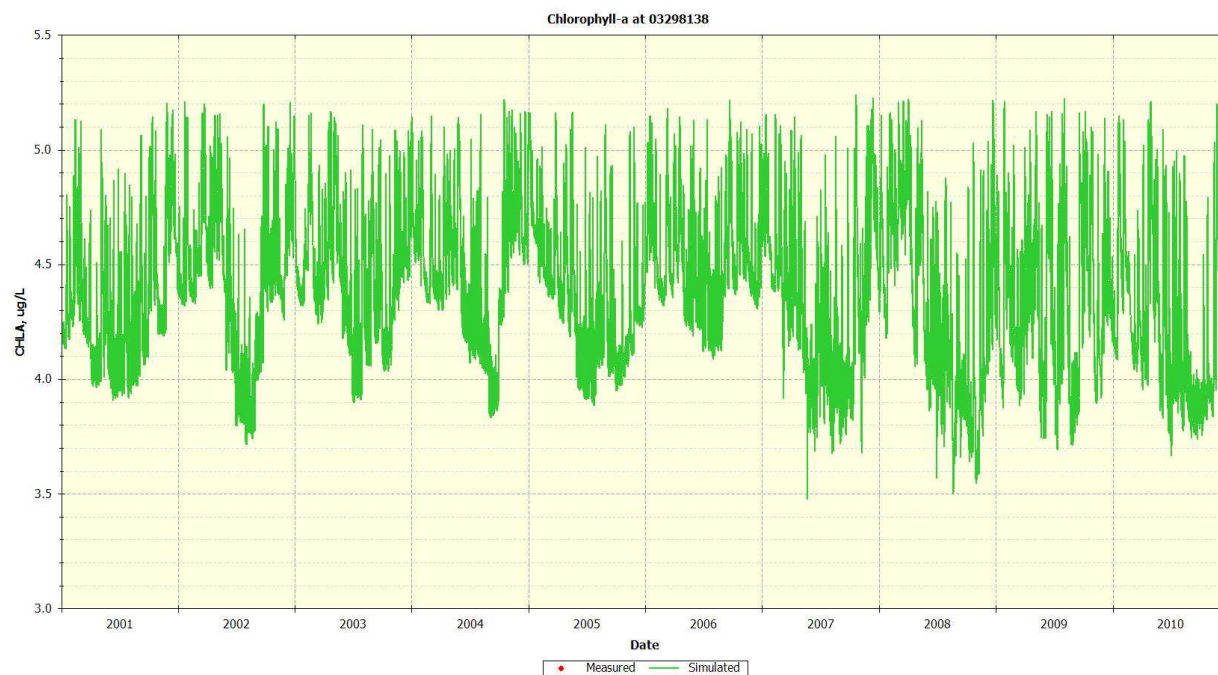


Figure A-333 Modeled Chlorophyll-a (µg/L) at 03298138

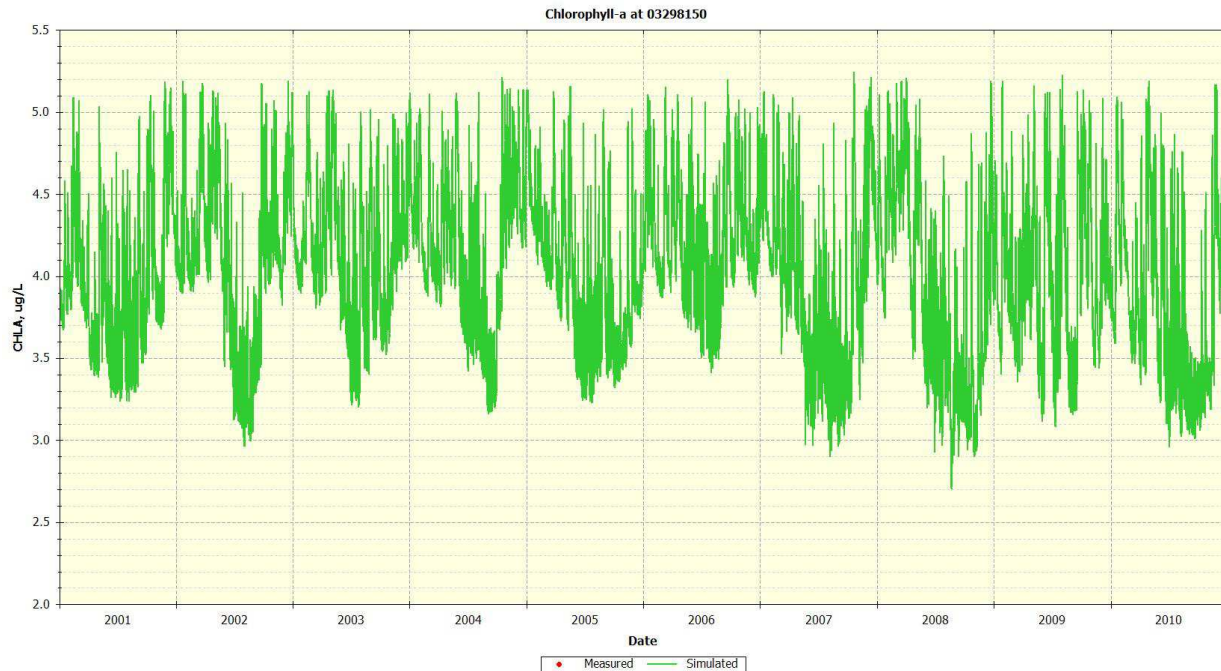


Figure A-334 Modeled Chlorophyll-a (µg/L) at 03298150

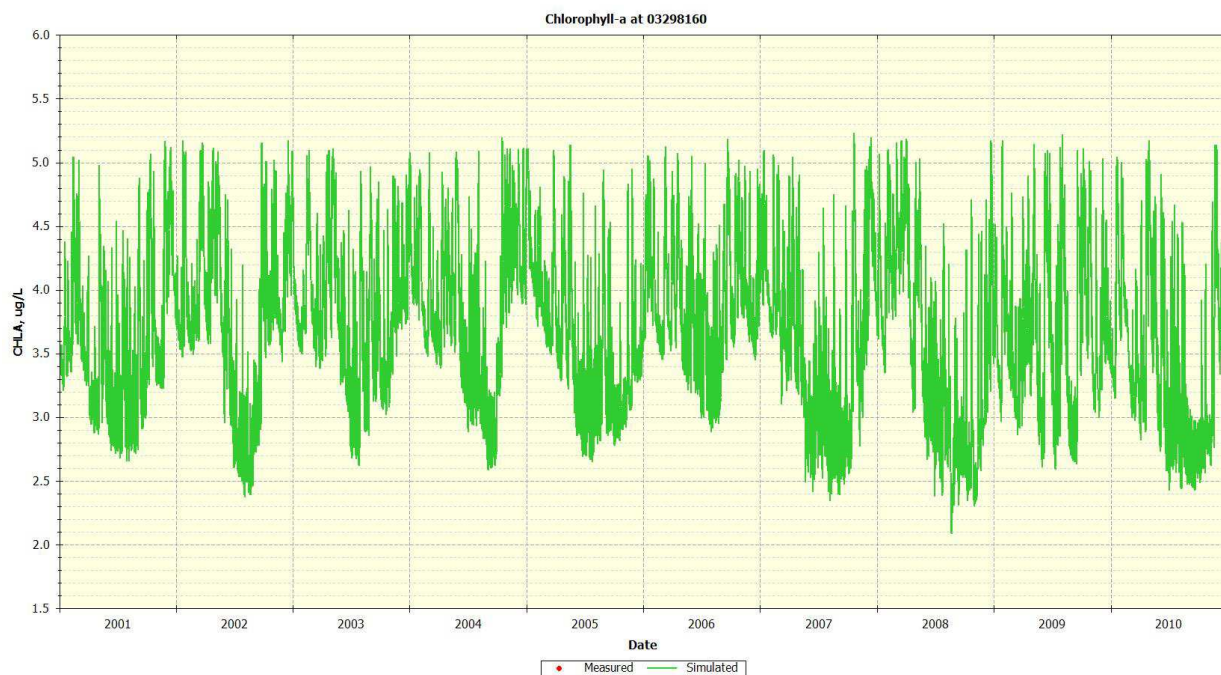


Figure A-335 Modeled Chlorophyll-a (µg/L) at 03298160

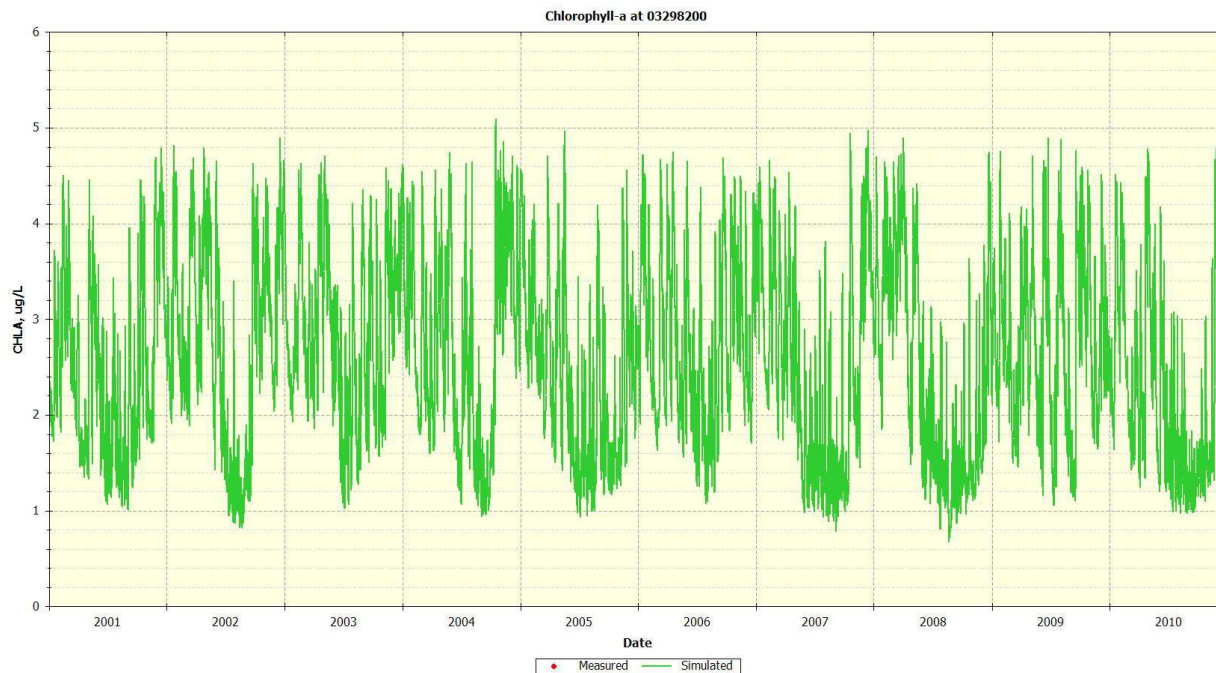


Figure A-336 Modeled Chlorophyll-a (µg/L) at 03298200

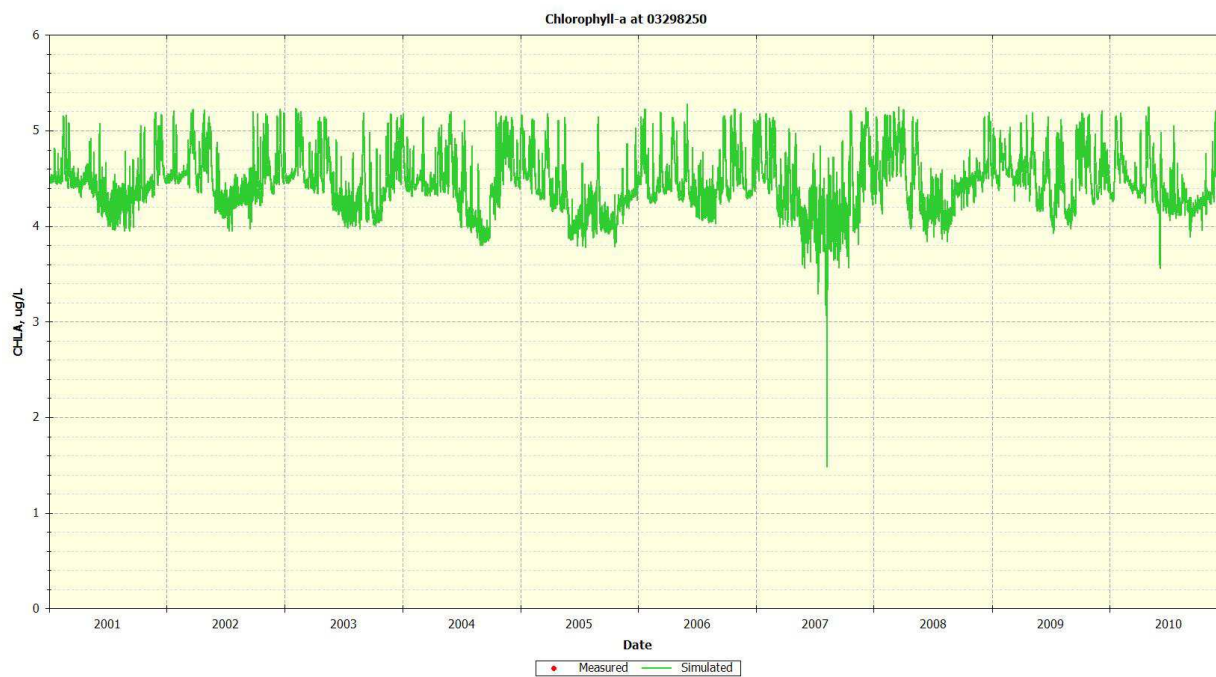


Figure A-337 Modeled Chlorophyll-a (µg/L) at 03298250

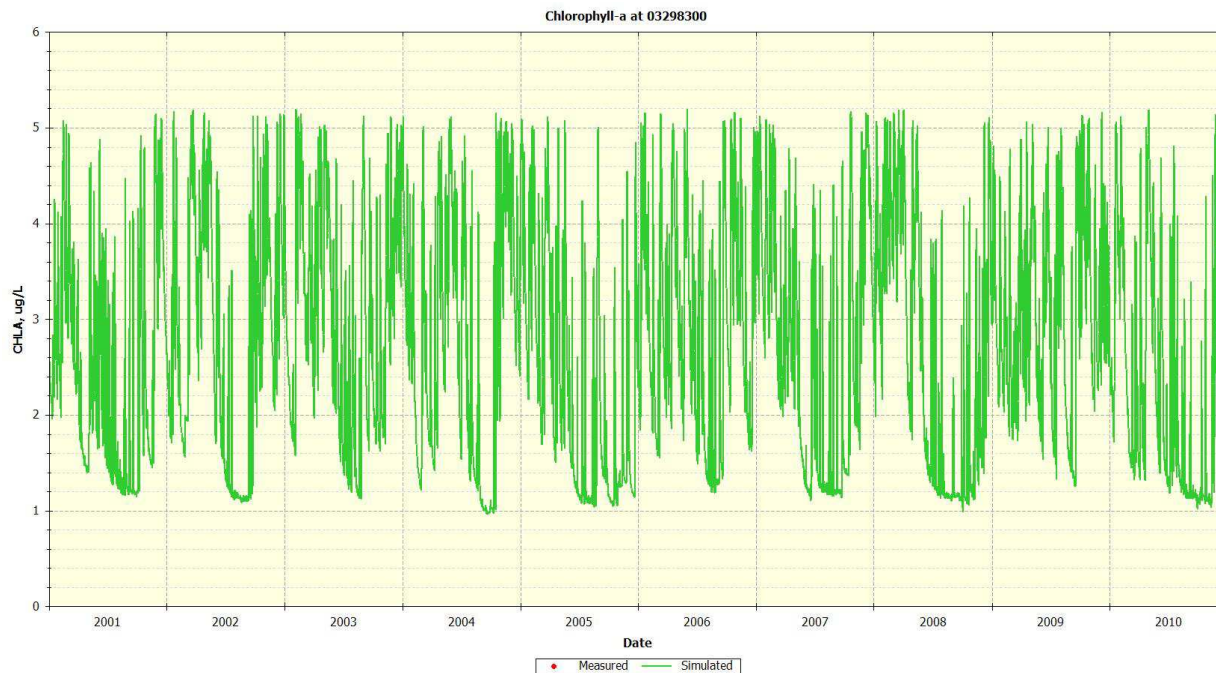


Figure A-338 Modeled Chlorophyll-a (µg/L) at 03298300

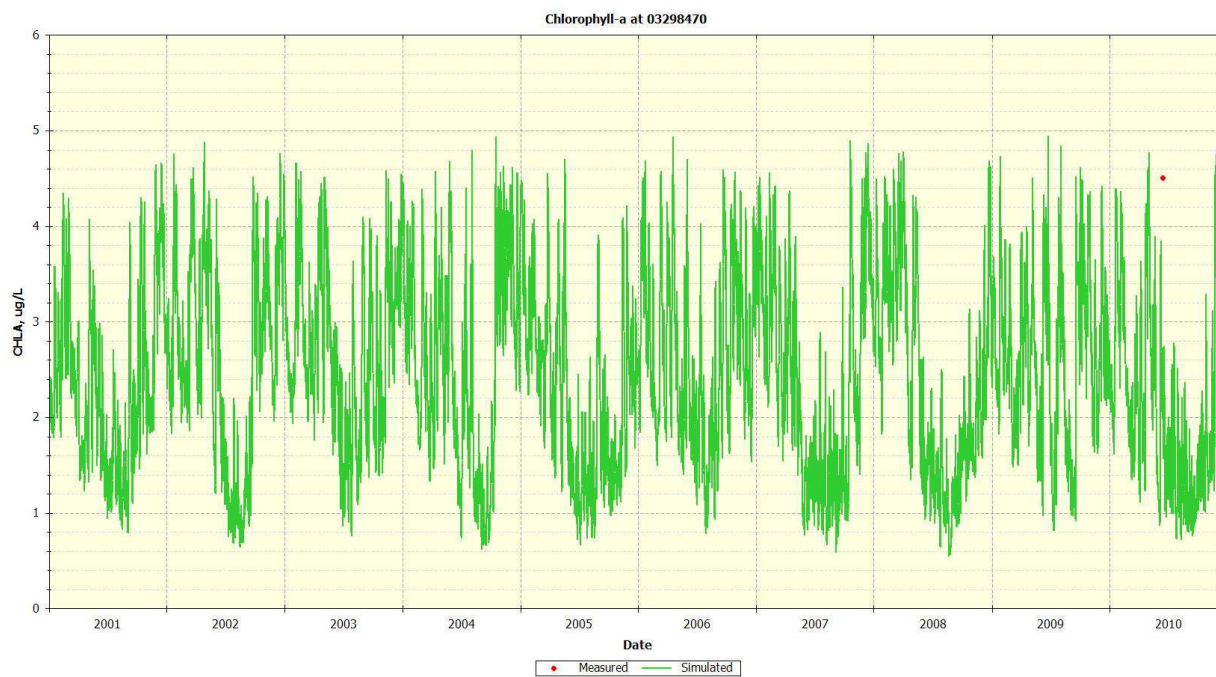


Figure A-339 Modeled Chlorophyll-a (µg/L) at 03298470

Table A-2 Summary Qualitative and Quantitative scores for the USGS Water Quality Calibration Stations

Location: Main Stem, Floyds Fork					
Station	Station Name	Qualitative score		Quantitative score	
		TN	TP	TN	TP
03297830	Floyds Fork at Highway 53	G	G	41	42
03297845	Floyds Fork near Crestwood	G	F	45	79
03297900	Floyds Fork near Peewee Valley	G	F	39	71
03297930	Floyds Fork at Echo trail bridge	G	F	63	75
03298000	Floyds Fork at Fisherville	G	G	42	46
03298120	Floyds Fork at Seatonville Road	G	G	40	60
03298200	Floyds Fork near Mt. Washington	G	VG	44	6
03298470	Floyds Fork near Shepherdsville	G	VG	37	29
Location: Tributaries					
03297850	South Fork Curry's Fork at Moody Lane	G	F	67	73
03297855	South Fork Curry's Fork at Highway 393	VG	VG	23	1
03297860	North Fork Curry's Fork at Stone Ridge road	G	F	51	74
03297875	Ashers Run at Abbott lane near Crestwood	G	G	44	55
03297880	Currys Fork near Crestwood	VG	G	19	41
03297950	Long Run at Old stage coach road	G	VG	32	9
03297975	South Long Run at Hobbs Lane	VG	G	3	55
03297980	Long Run near Fisherville	VG	G	12	61
03298005	Pope lick at South poepe lick road near Fisherville	VG	G	11	41
03298020	Cane Run at Thurman Road	VG	G	23	67
03298100	Pope lick at pope lick road near Middletown	G	F	56	70
03298110	Pope lick at Rehl road near Fisherville	VG	VG	19	27
03298135	Chenoweth Run at Ruckriegal Parkway	G	VG	42	20
03298138	Chenoweth Run at Jeffersontown STP at Jeffersontown	G	G	65	62
03298150	Chenoweth Run at Gelhaus Lane near Fern creek	G	G	61	35
03298160	Chenoweth Run at Seatonville road near Jeffersontown	G	VG	37	14
03298250	Cedar Creek at Thixton Road	G	VG	54	6
03298300	Pennsylvania Run at Mt. Washington	VG	G	27	38

Table A-3 Calibration Statistics for TN for USGS Water Quality Calibration Stations utilized in the Floyds Fork model

Station	Station Name	Measured			Simulated			Difference		
		Mean	5 %tile	95 %tile	Mean	5 %tile	95 %tile	Mean	5 %tile	95 %tile
Location : Main Stem, Floyds Fork										
03297830	Floyds Fork at Highway 53	1.161	0.295	3.730	0.699	0.322	1.263	-0.462	-0.027	2.467
03297845	Floyds Fork near Crestwood	1.366	0.408	4.560	0.548	0.351	1.007	-0.818	0.057	3.553
03297900	Floyds Fork near Peewee Valley	4.079	0.720	8.506	6.389	1.063	10.949	2.310	-0.343	-2.443
03297930	Floyds Fork at Echo trail bridge	3.919	2.123	9.463	4.061	1.214	6.692	0.143	0.909	2.770
03298000	Floyds Fork at Fisherville	2.770	1.489	6.205	3.684	0.990	6.562	0.914	0.499	-0.357
03298120	Floyds Fork at Seatonville Road	1.291	0.406	3.168	3.246	0.845	7.435	1.955	-0.439	-4.267
03298200	Floyds Fork near Mt. Washington	3.543	1.474	7.863	3.988	1.112	7.681	0.445	0.362	0.182
03298470	Floyds Fork near Shepherdsville	2.183	1.026	4.606	3.348	0.993	6.122	1.165	0.033	-1.517
Location: Tributaries										
03297850	South Fork Curry's Fork at Moody Lane	8.393	1.758	18.552	4.877	0.931	6.306	-3.515	0.827	12.246
03297855	South Fork Curry's Fork at Highway 393	1.049	0.411	2.424	2.196	1.142	3.871	1.147	-0.731	-1.447
03297860	North Fork Curry's Fork at Stone Ridge road	15.263	2.632	30.050	13.732	2.011	18.514	-1.531	0.621	11.536
03297875	Ashers Run at Abbott lane near Crestwood	1.305	0.000	0.000	0.441	0.000	0.000	-0.864	0.000	0.000
03297880	Currys Fork near Crestwood	5.992	1.181	17.239	9.019	1.126	13.709	3.027	0.055	3.531
03297950	Long Run at Old stage coach road	0.674	0.000	0.000	0.271	0.000	0.000	-0.402	0.000	0.000
03297975	South Long Run at Hobbs Lane	0.833	0.243	2.103	0.332	0.088	0.899	-0.502	0.155	1.203
03297980	Long Run near Fisherville	1.012	0.266	3.050	0.349	0.158	0.883	-0.663	0.108	2.167
03298005	Pope lick at South poepe lick road near Fisherville	0.590	0.239	1.795	0.369	0.190	0.945	-0.221	0.049	0.851
03298020	Cane Run at Thurman Road	1.073	0.000	0.000	0.334	0.000	0.000	-0.739	0.000	0.000
03298100	Pope lick at pope lick road near Middletown	0.765	0.230	1.817	0.319	0.133	0.898	-0.445	0.097	0.919
03298110	Pope lick at Rehl road near Fisherville	0.585	0.242	1.718	0.253	0.081	0.829	-0.331	0.161	0.889
03298135	Chenoweth Run at Ruckriegal Parkway	0.948	0.320	2.123	0.482	0.304	1.268	-0.466	0.016	0.855
03298138	Chenoweth Run at Jeffersontown STP at Jeffersontown	18.619	10.260	34.300	8.632	0.864	30.854	-9.986	9.396	3.446
03298150	Chenoweth Run at Gelhaus Lane near Fern creek	12.461	2.549	20.720	7.070	1.214	25.807	-5.391	1.336	-5.087
03298160	Chenoweth Run at Seatonville road near Jeffersontown	10.029	2.079	18.964	6.266	0.783	23.706	-3.764	1.297	-4.742
03298250	Cedar Creek at Thixton Road	4.584	2.055	7.658	1.385	0.586	3.663	-3.199	1.469	3.994
03298300	Pennsylvania Run at Mt. Washington	4.085	0.538	14.604	2.926	0.901	4.241	-1.159	-0.363	10.363

Table A-4 Calibration Statistics for TP for USGS Water Quality Calibration Stations utilized in the Floyds Fork model

Station	Station Name	Measured			Simulated			Difference		
		Mean	5 %tile	95 %tile	Mean	5 %tile	95 %tile	Mean	5 %tile	95 %tile
Location : Main Stem, Floyds Fork										
03297830	Floyds Fork at Highway 53	0.153	0.041	0.367	0.218	0.059	0.548	0.065	-0.017	-0.182
03297845	Floyds Fork near Crestwood	0.377	0.045	2.051	0.111	0.041	0.218	-0.267	0.004	1.833
03297900	Floyds Fork near Peewee Valley	0.583	0.132	1.294	0.722	0.078	1.366	0.139	0.054	-0.072
03297930	Floyds Fork at Echo trail bridge	0.287	0.113	1.902	0.714	0.125	1.399	0.427	-0.013	0.503
03298000	Floyds Fork at Fisherville	0.183	0.081	0.650	0.652	0.085	1.303	0.468	-0.004	-0.652
03298120	Floyds Fork at Seatonville Road	0.138	0.041	1.033	0.566	0.062	1.115	0.428	-0.021	-0.081
03298200	Floyds Fork near Mt. Washington	0.144	0.042	0.406	0.496	0.076	0.805	0.352	-0.034	-0.399
03298470	Floyds Fork near Shepherdsville	0.192	0.062	0.447	0.552	0.086	0.978	0.361	-0.025	-0.531
Location: Tributaries										
03297850	South Fork Curry's Fork at Moody Lane	2.250	0.266	3.410	1.217	0.105	1.568	-1.033	0.160	1.841
03297855	South Fork Curry's Fork at Highway 393	0.197	0.030	0.656	0.660	0.097	1.224	0.463	-0.067	-0.568
03297860	North Fork Curry's Fork at Stone Ridge road	1.950	0.254	3.797	0.771	0.121	1.232	-1.179	0.132	2.565
03297875	Ashers Run at Abbott lane near Crestwood	0.128	0.000	0.000	0.067	0.000	0.000	-0.061	0.000	0.000
03297880	Currys Fork near Crestwood	0.719	0.149	2.088	0.715	0.080	1.297	-0.004	0.069	0.791
03297950	Long Run at Old stage coach road	0.071	0.000	0.000	0.047	0.000	0.000	-0.024	0.000	0.000
03297975	South Long Run at Hobbs Lane	0.196	0.060	0.744	0.045	0.023	0.097	-0.151	0.037	0.647
03297980	Long Run near Fisherville	0.170	0.026	0.785	0.052	0.024	0.084	-0.118	0.002	0.701
03298005	Pope lick at South poepe lick road near Fisherville	0.053	0.011	0.237	0.046	0.024	0.127	-0.007	-0.013	0.110
03298020	Cane Run at Thurman Road	0.204	0.000	0.000	0.052	0.000	0.000	-0.152	0.000	0.000
03298100	Pope lick at pope lick road near Middletown	0.066	0.017	0.296	0.039	0.022	0.115	-0.027	-0.005	0.181
03298110	Pope lick at Rehl road near Fisherville	0.047	0.013	0.230	0.049	0.020	0.097	0.002	-0.007	0.134
03298135	Chenoweth Run at Ruckriegal Parkway	0.031	0.010	0.139	0.038	0.020	0.135	0.007	-0.010	0.004
03298138	Chenoweth Run at Jeffersontown STP at Jeffersontown	0.877	0.195	2.180	0.410	0.067	0.976	-0.467	0.128	1.204
03298150	Chenoweth Run at Gelhaus Lane near Fern creek	0.440	0.089	1.564	0.508	0.077	0.870	0.068	0.012	0.694
03298160	Chenoweth Run at Seatonville road near Jeffersontown	0.363	0.062	1.087	0.469	0.063	0.794	0.106	-0.001	0.293
03298250	Cedar Creek at Thixton Road	0.339	0.033	1.174	0.384	0.060	0.896	0.045	-0.027	0.278
03298300	Pennsylvania Run at Mt. Washington	0.868	0.063	2.240	0.650	0.054	1.104	-0.219	0.008	1.136

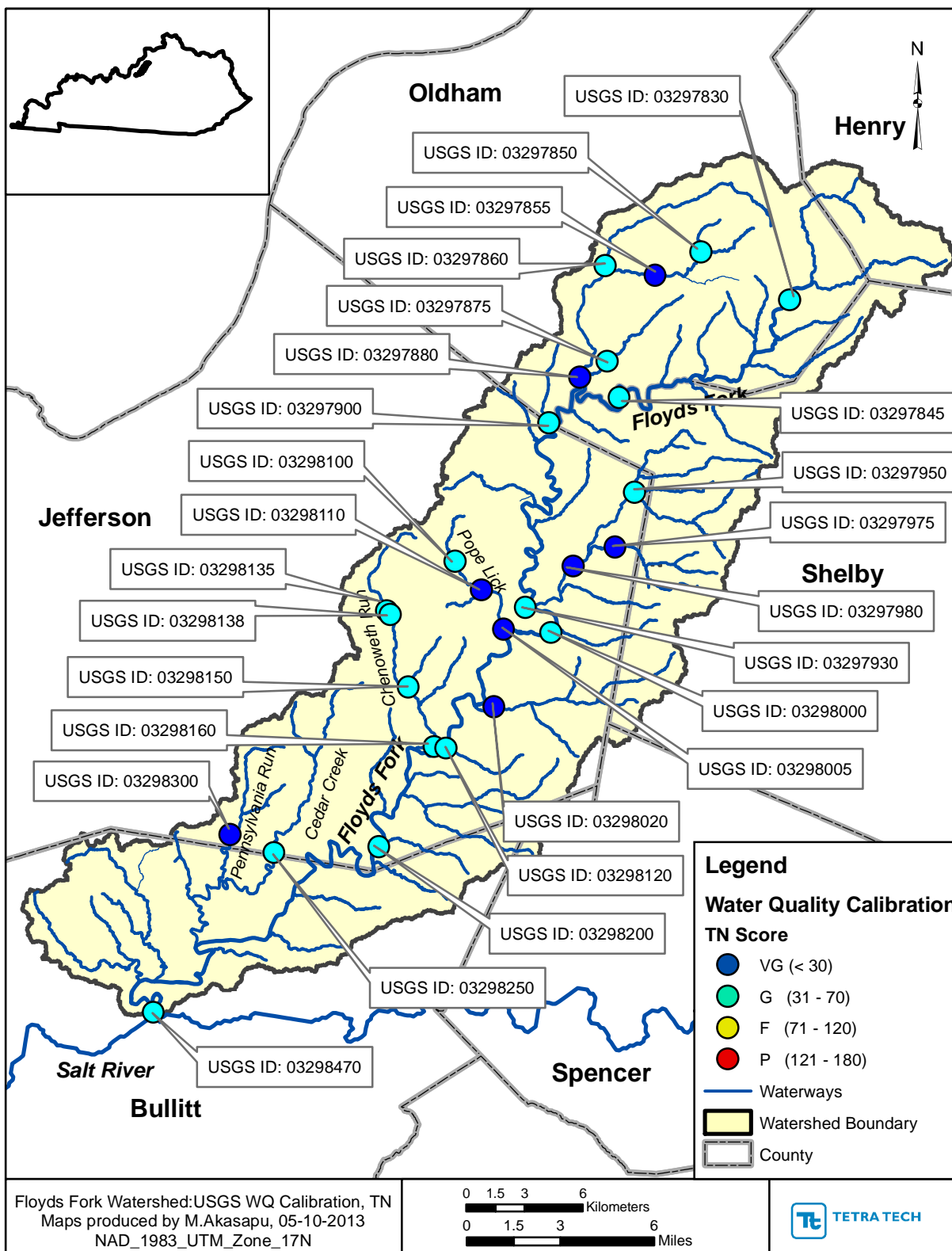


Figure A-340 USGS Water Quality for TN in the Floyds Fork Watershed

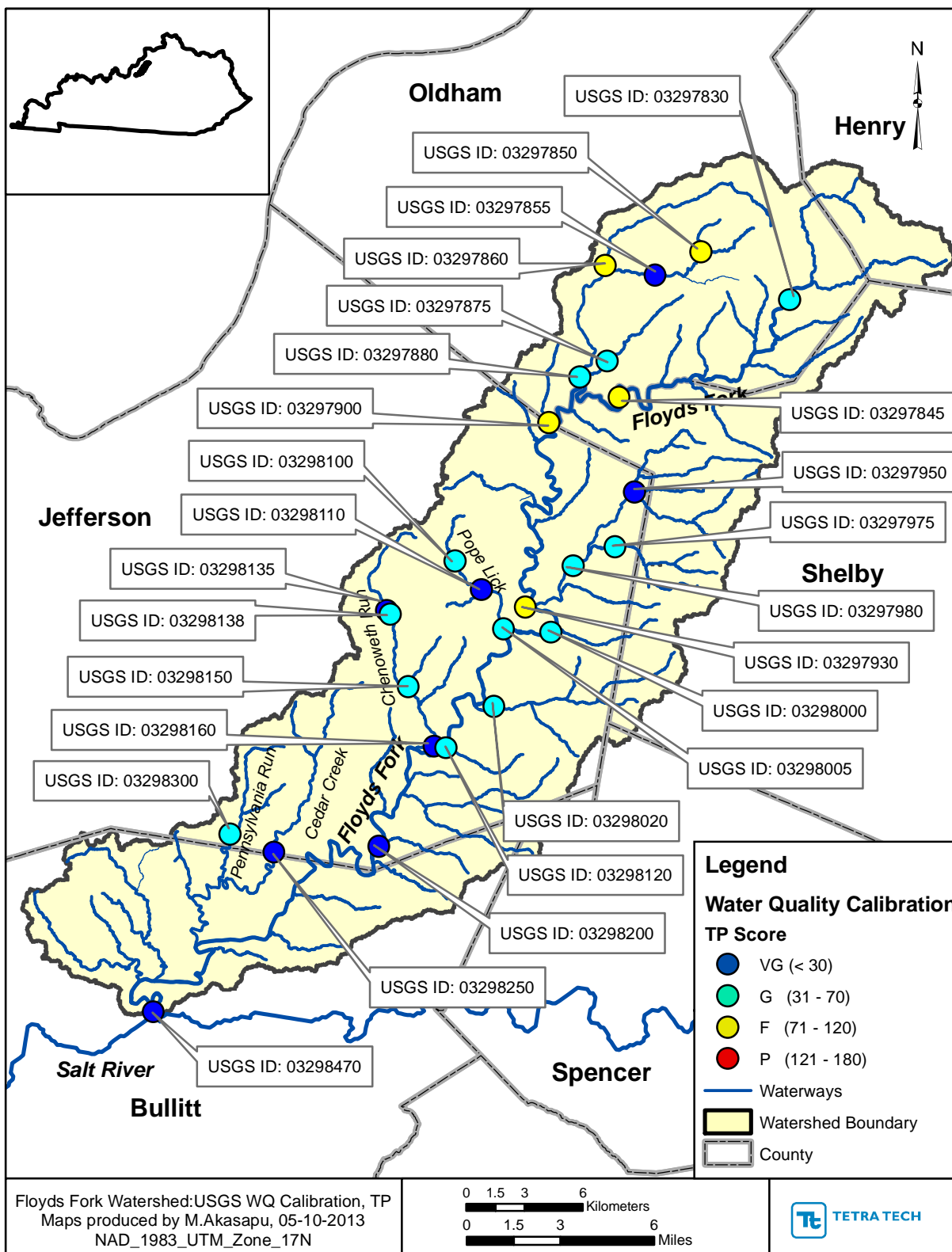


Figure A-341 USGS Water Quality for TP in the Floyds Fork Watershed

Table A-5 MSD Water Quality Validation Stations

Station	Agency	Site Name	USGS Drainage Area (mi ²)	USGS Drainage Area (acres)	WASP Segment	Type	Parameter
EFFFF001	MSD	Floyds Fork at Ash Avenue	80	51136	208	Validation	TEMP, DO, CBOD, TN, NH ₃ , NO ₃ , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
EFFFF002	MSD	Floyds Fork at BardStown Road	213	136320	210	Validation	TEMP, DO, CBOD, TN, NH ₃ , NO ₃ , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
EFFFF003	MSD	Floyds Fork at Old Taylorsville Road	138	88320	209	Validation	TEMP, DO, CBOD, TN, NH ₃ , NO ₃ , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
EFFCR001	MSD	Chenoweth Run # 1 at Gelhaus Lane	12	7424	211	Validation	TEMP, DO, CBOD, TN, NH ₃ , NO ₃ , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a
EFFCR002	MSD	Chenoweth Run # 1 at Rickiegal Parkway	5	3501	140	Validation	TEMP, DO, CBOD, TN, NH ₃ , NO ₃ , ORGN, TP, PO ₄ , ORGP, TSS, pH, Chlorophyll-a

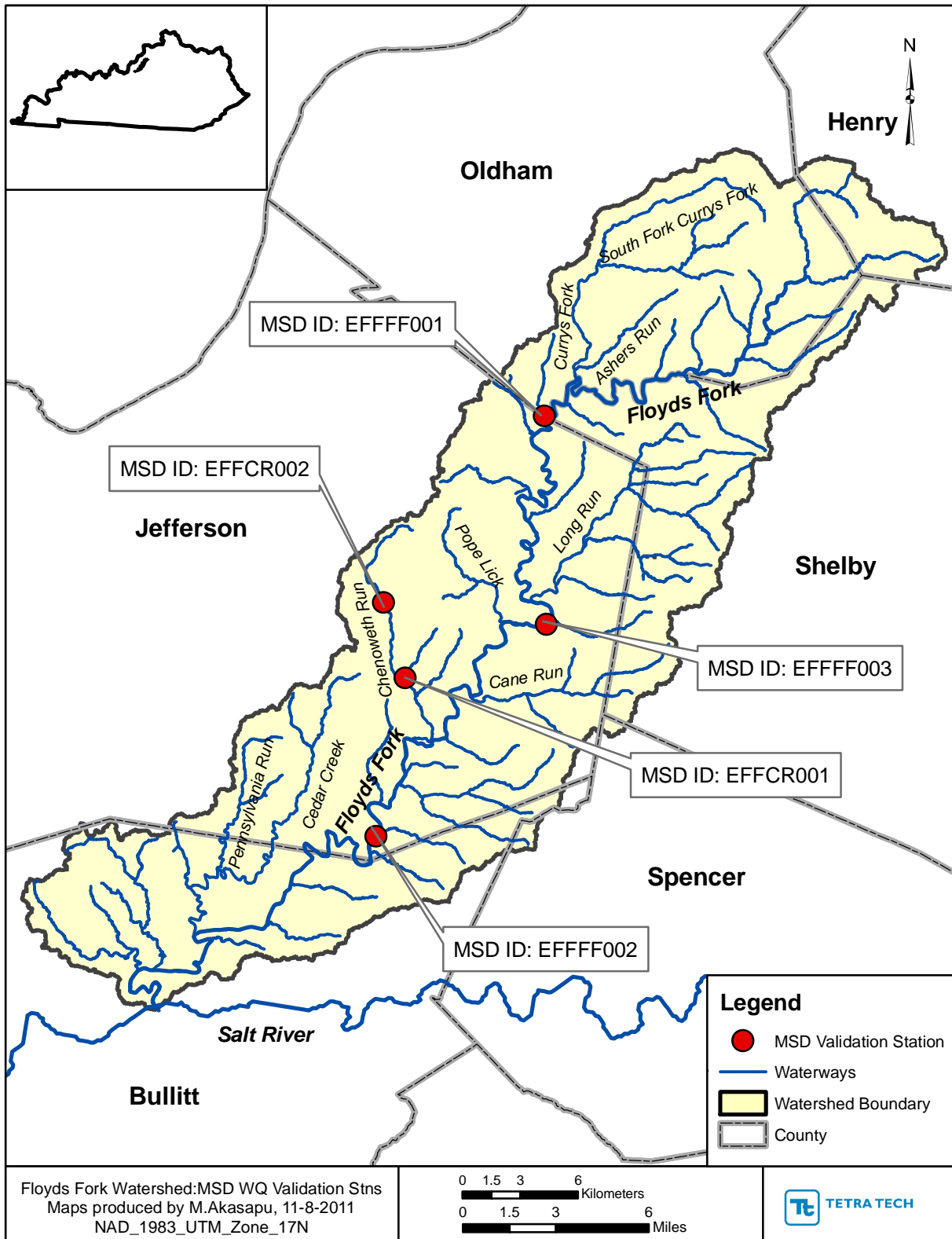


Figure A-342 MSD Water Quality Validation Stations Utilized in the Floyds Fork Watershed Model

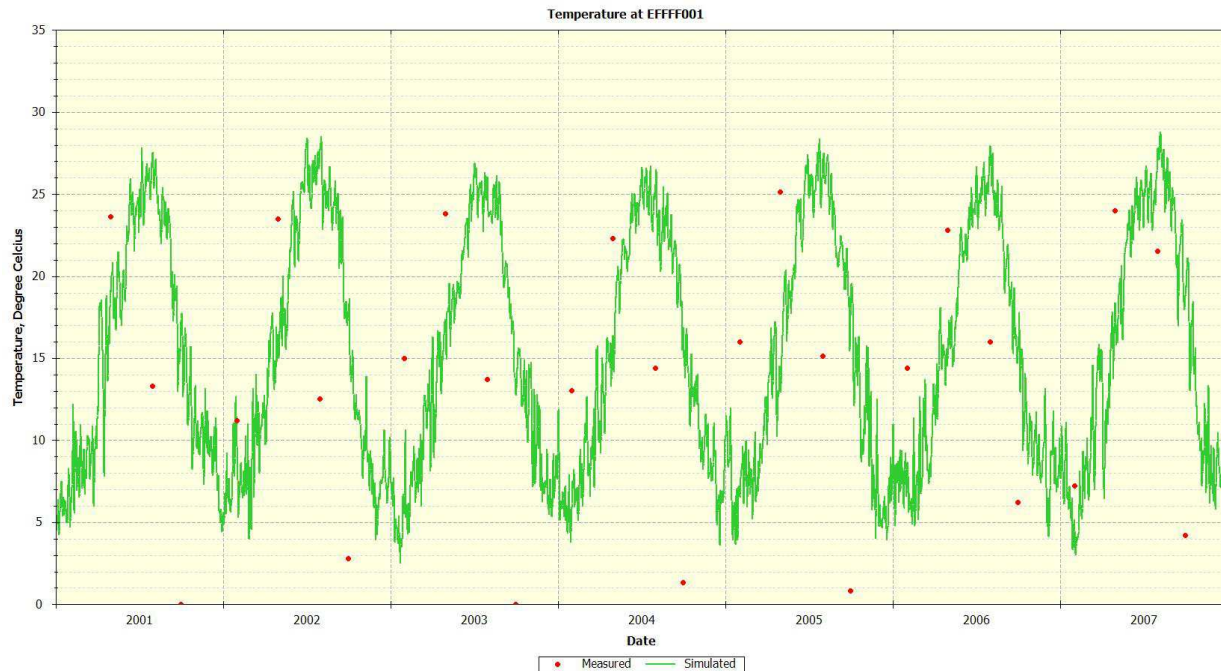


Figure A-343 Modeled vs. Observed TEMP (° C) at EFFFF001

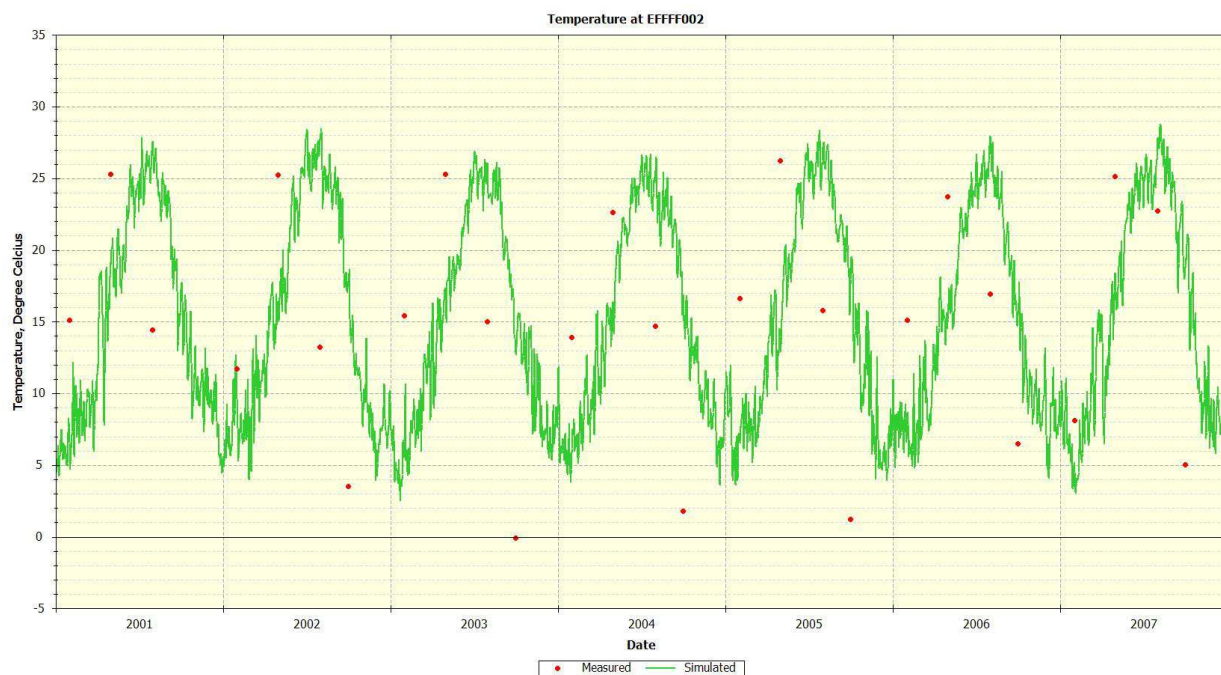


Figure A-344 Modeled vs. Observed TEMP (° C) at EFFFF002

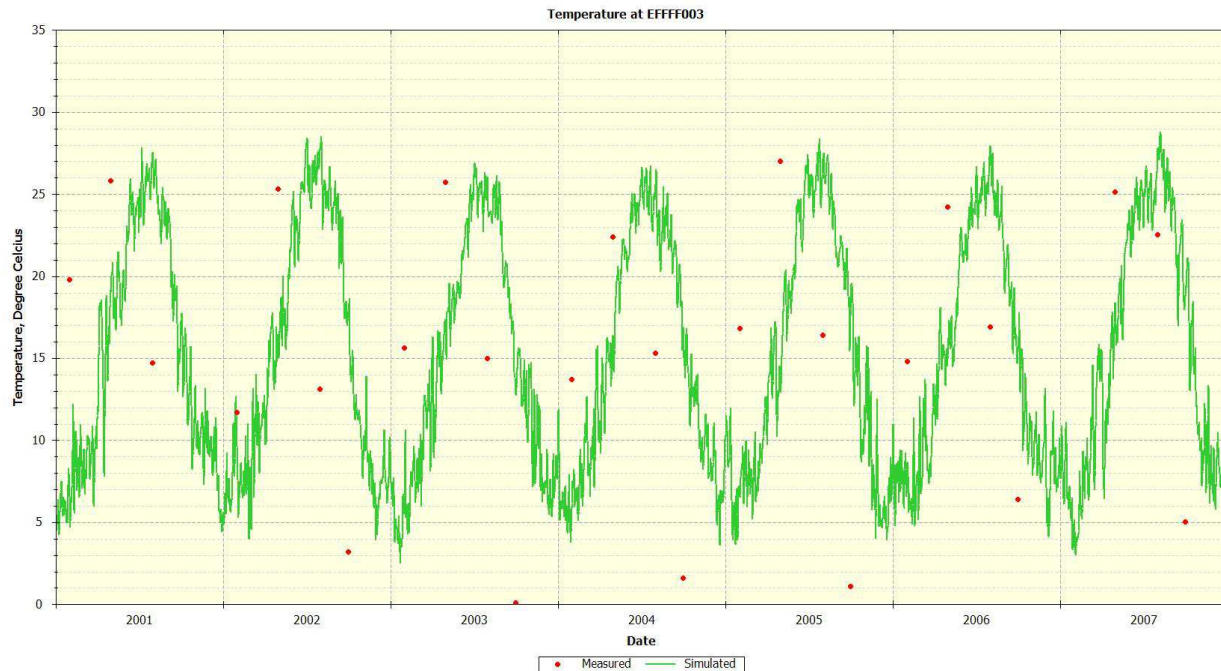


Figure A-345 Modeled vs. Observed TEMP (° C) at EFFFF003

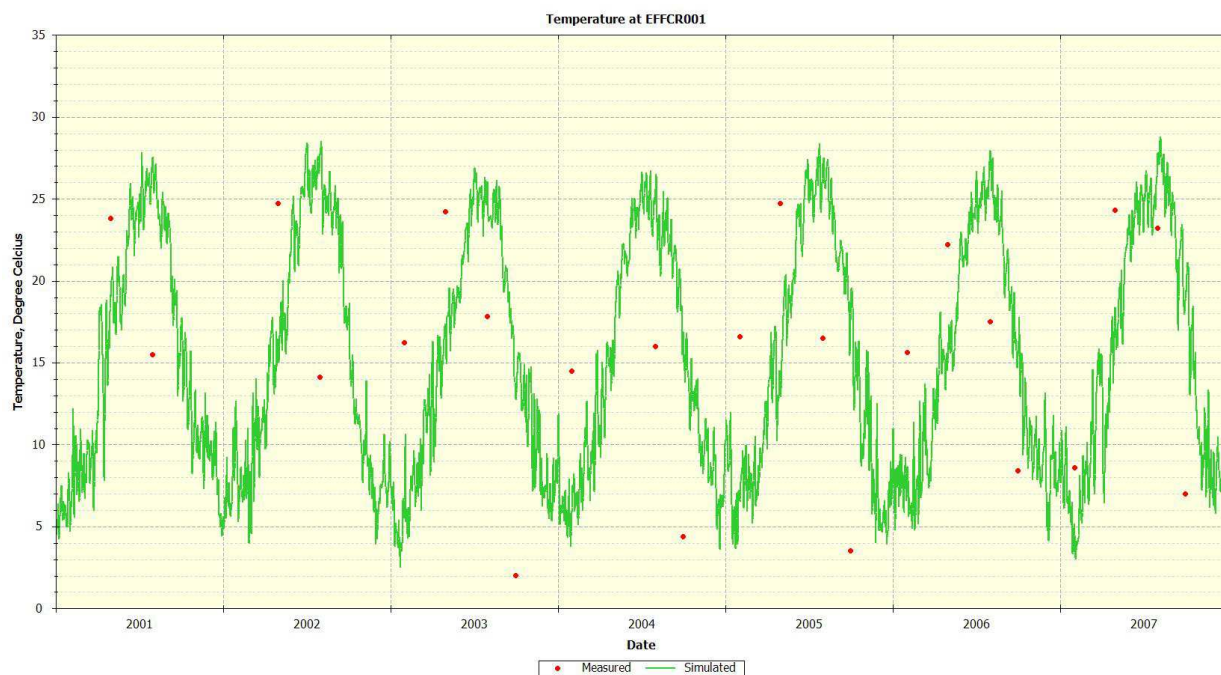


Figure A-346 Modeled vs. Observed TEMP (° C) at EFFCR001

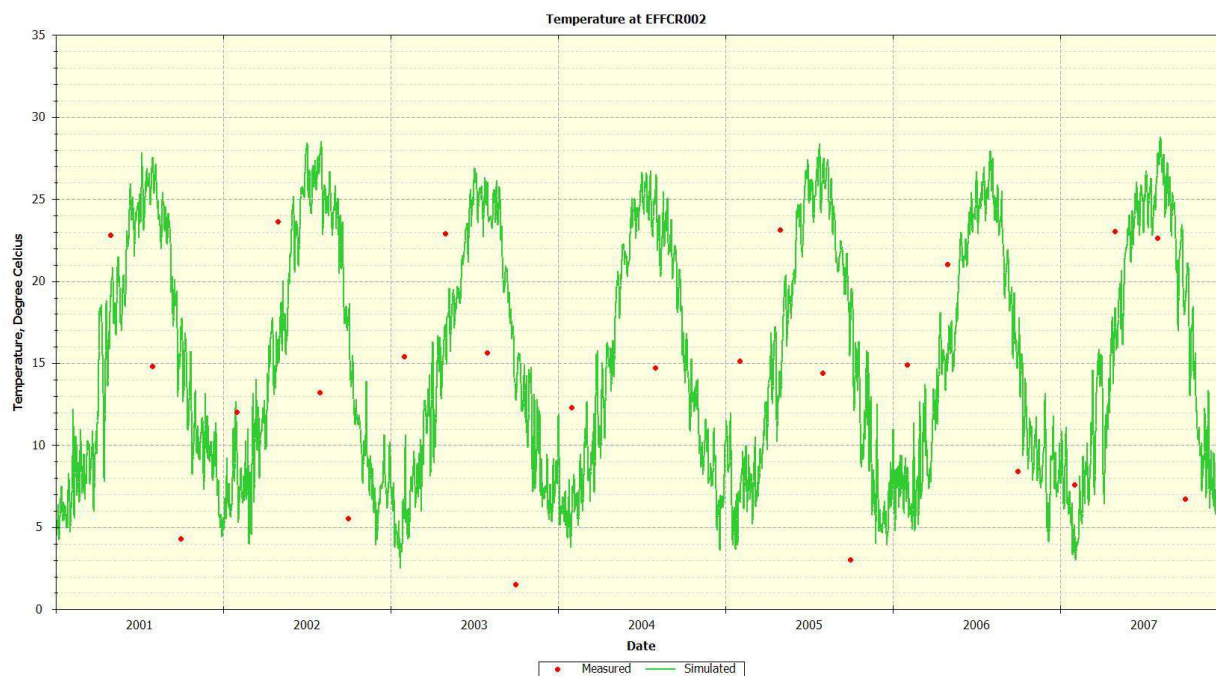


Figure A-347 Modeled vs. Observed TEMP (° C) at EFFCR002

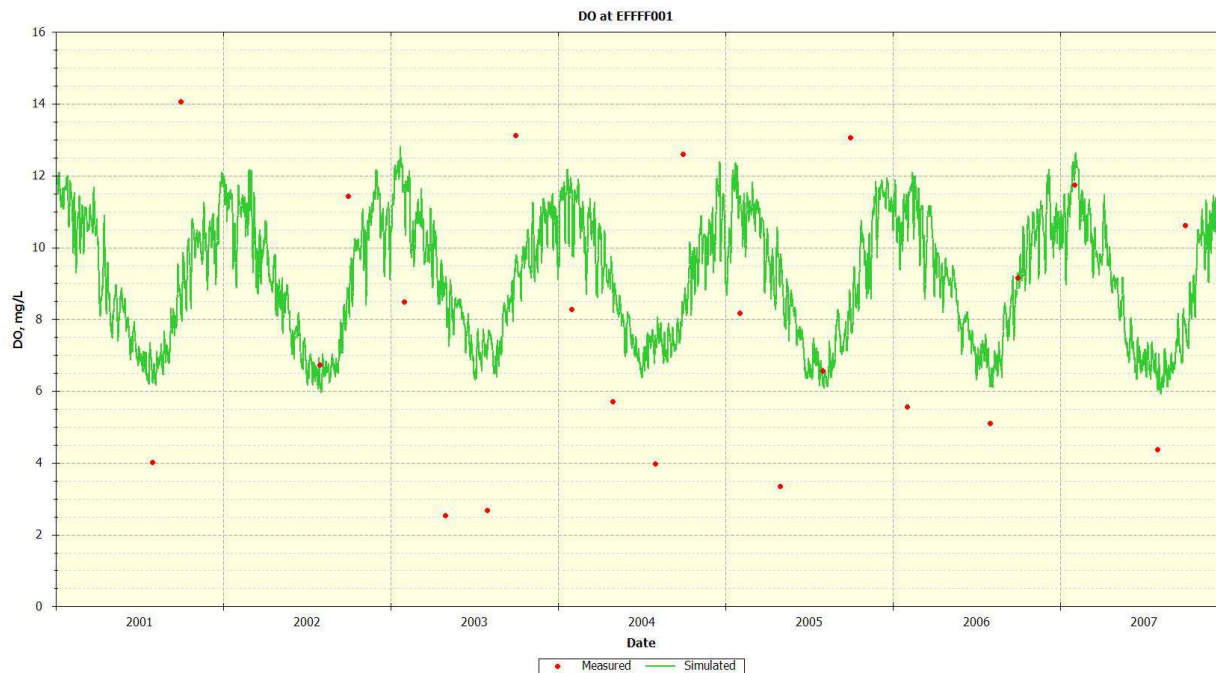


Figure A-348 Modeled vs. Observed DO (mg/L) at EFFFF001

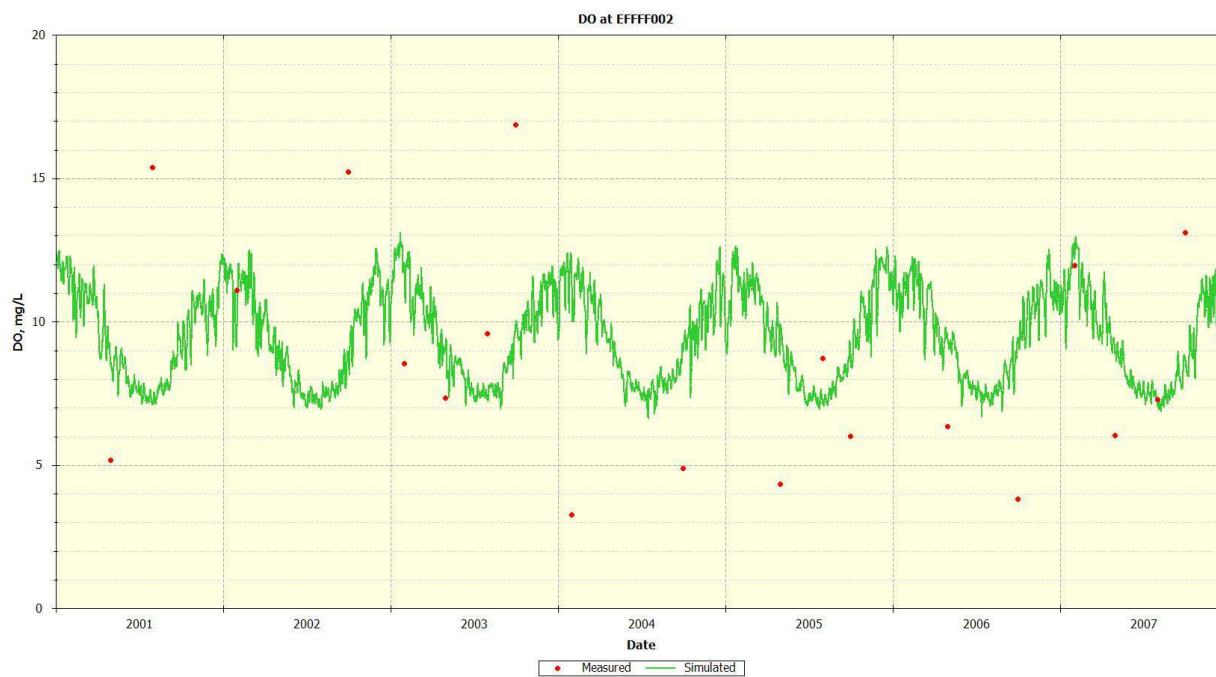


Figure A-349 Modeled vs. Observed DO (mg/L) at EFFFF002

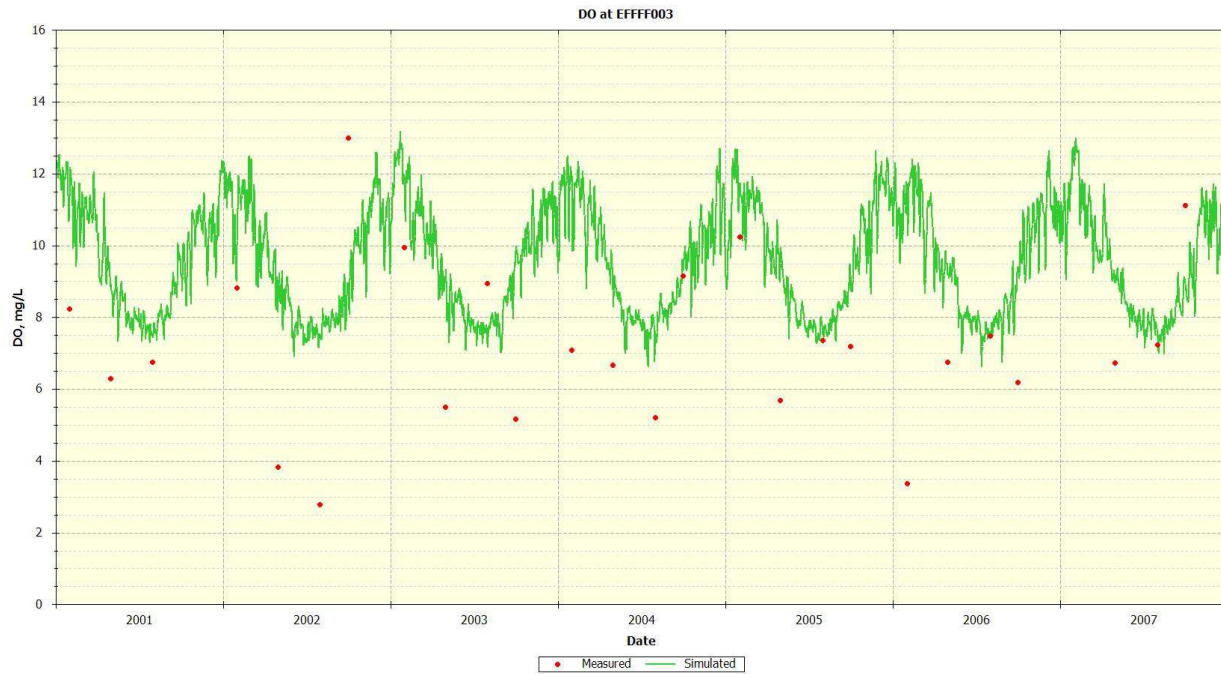


Figure A-350 Modeled vs. Observed DO (mg/L) at EFFFF003

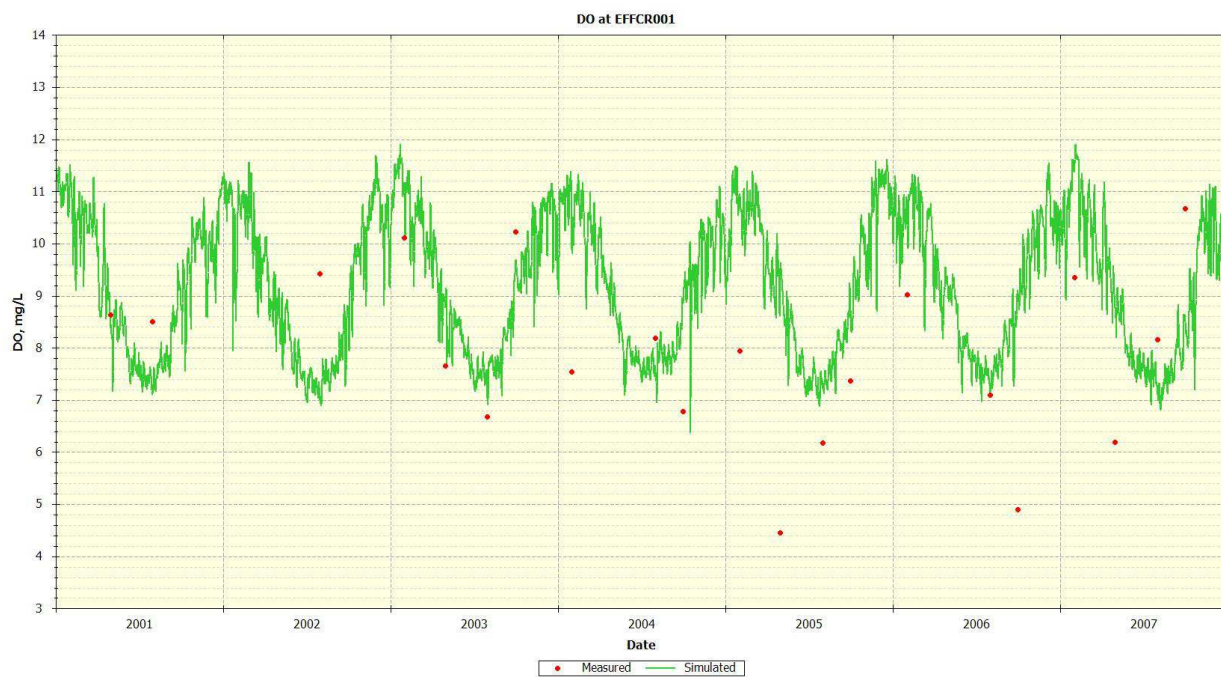


Figure A-351 Modeled vs. Observed DO (mg/L) at EFFCR001

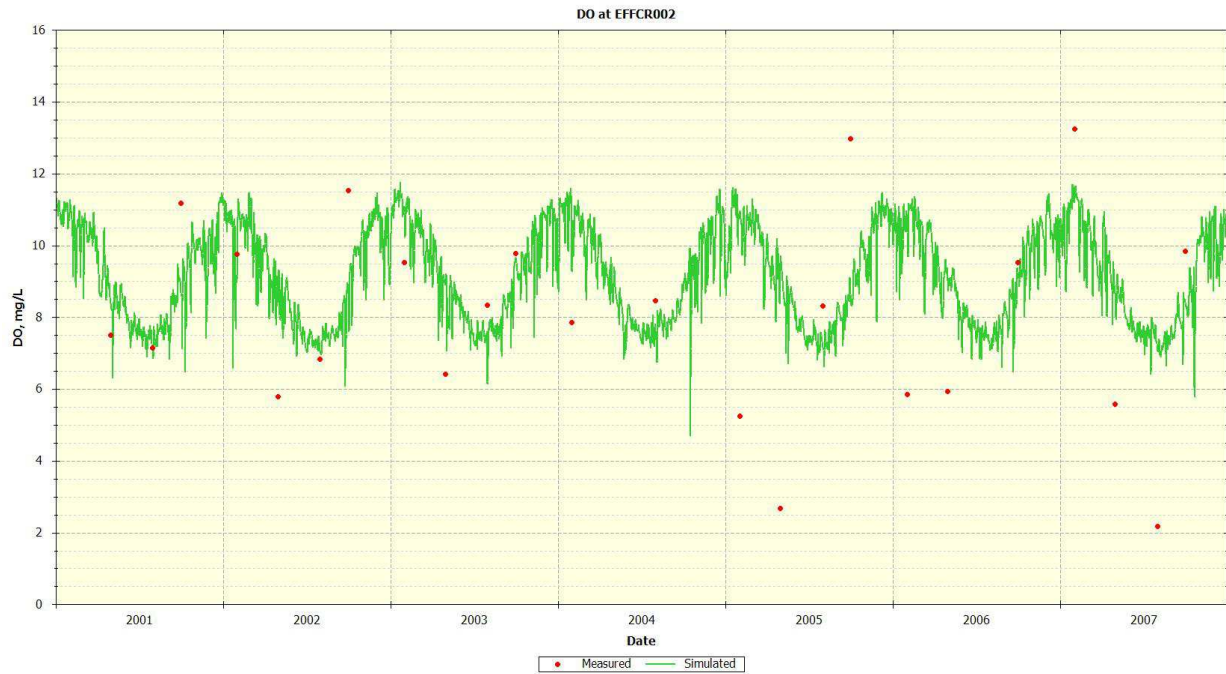


Figure A-352 Modeled vs. Observed DO (mg/L) at EFFCR002

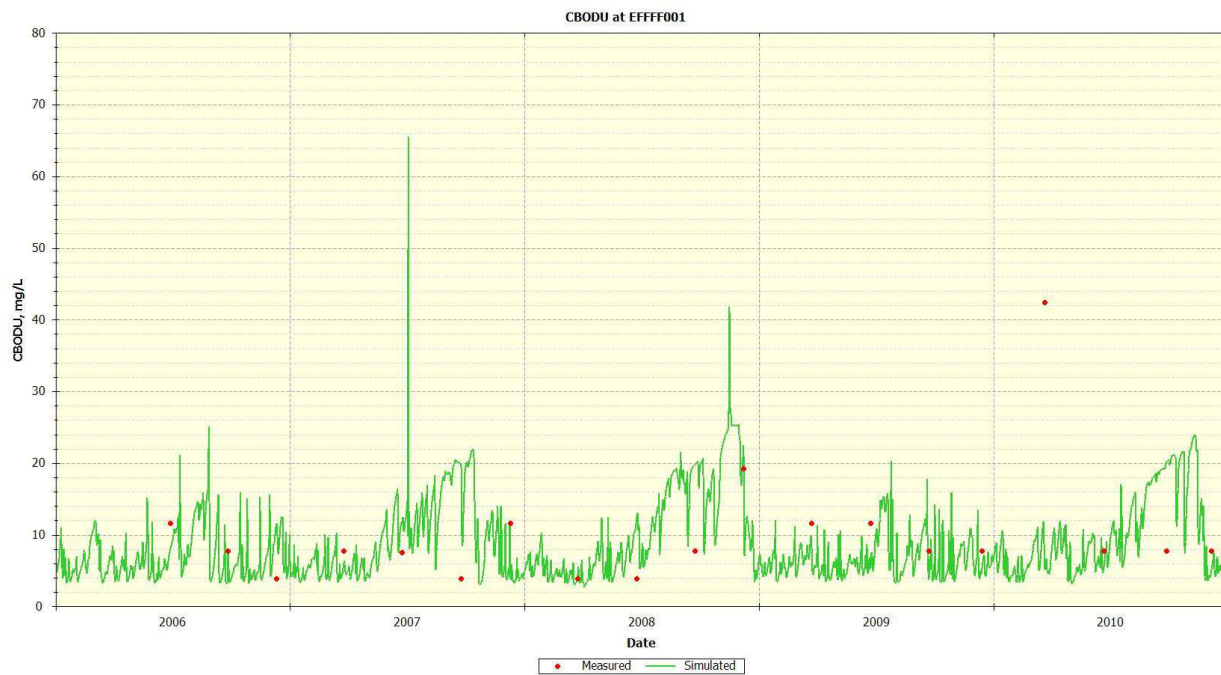


Figure A-353 Modeled vs. Observed CBOD (mg/L) at EFFFF001

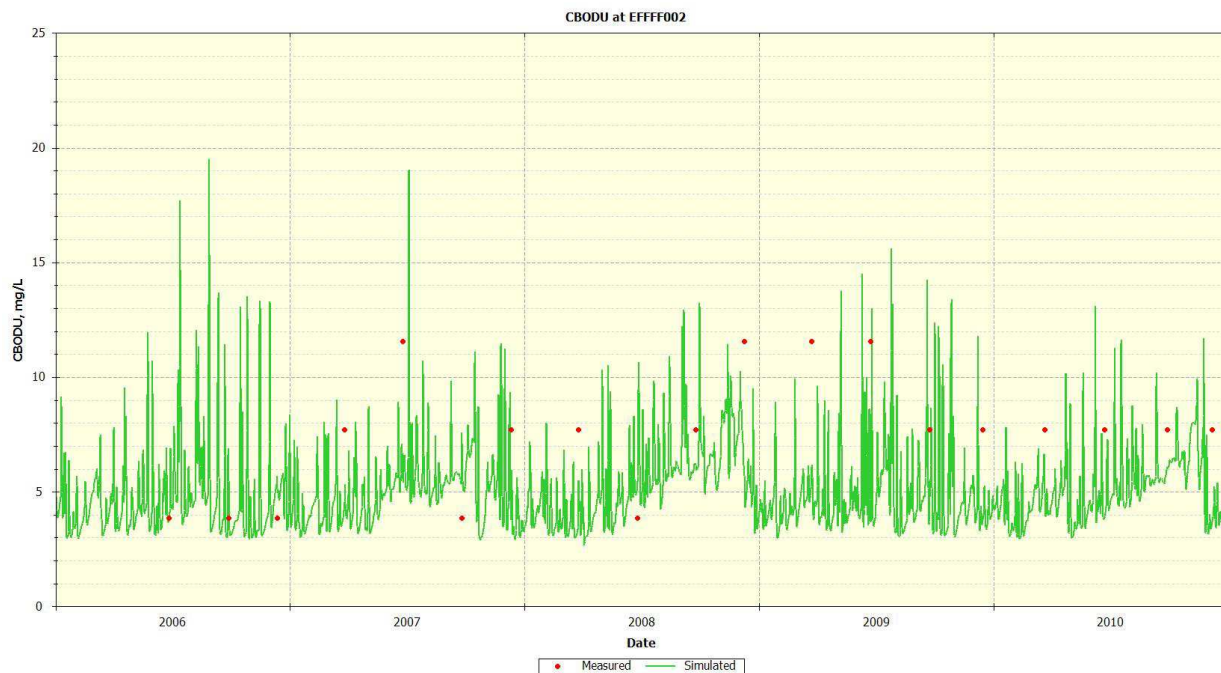


Figure A-354 Modeled vs. Observed CBOD (mg/L) at EFFFF002

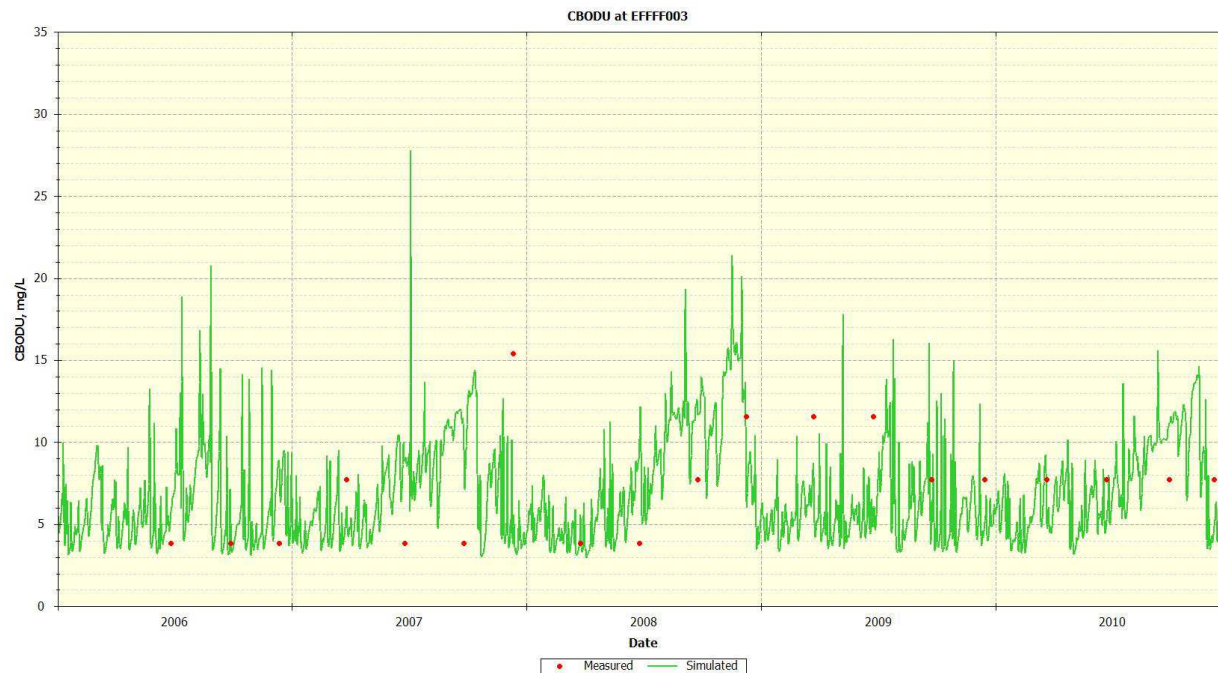


Figure A-355 Modeled vs. Observed CBOD (mg/L) at EFFFF003

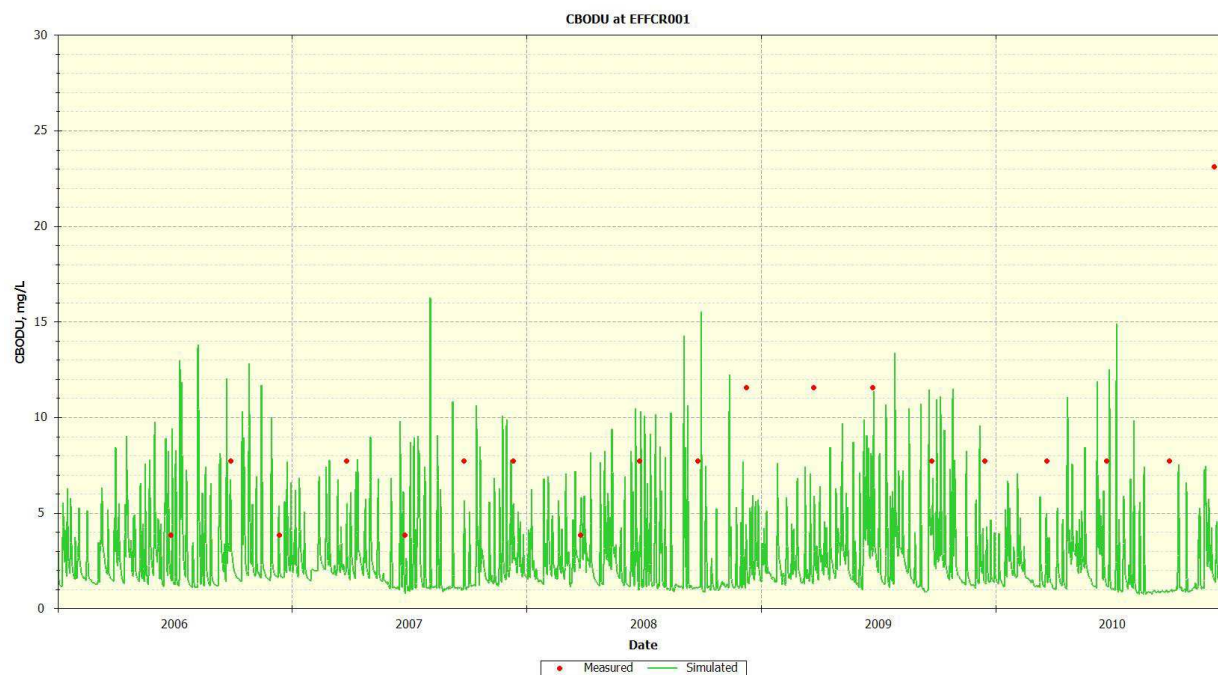


Figure A-356 Modeled vs. Observed CBOD (mg/L) at EFFCR001

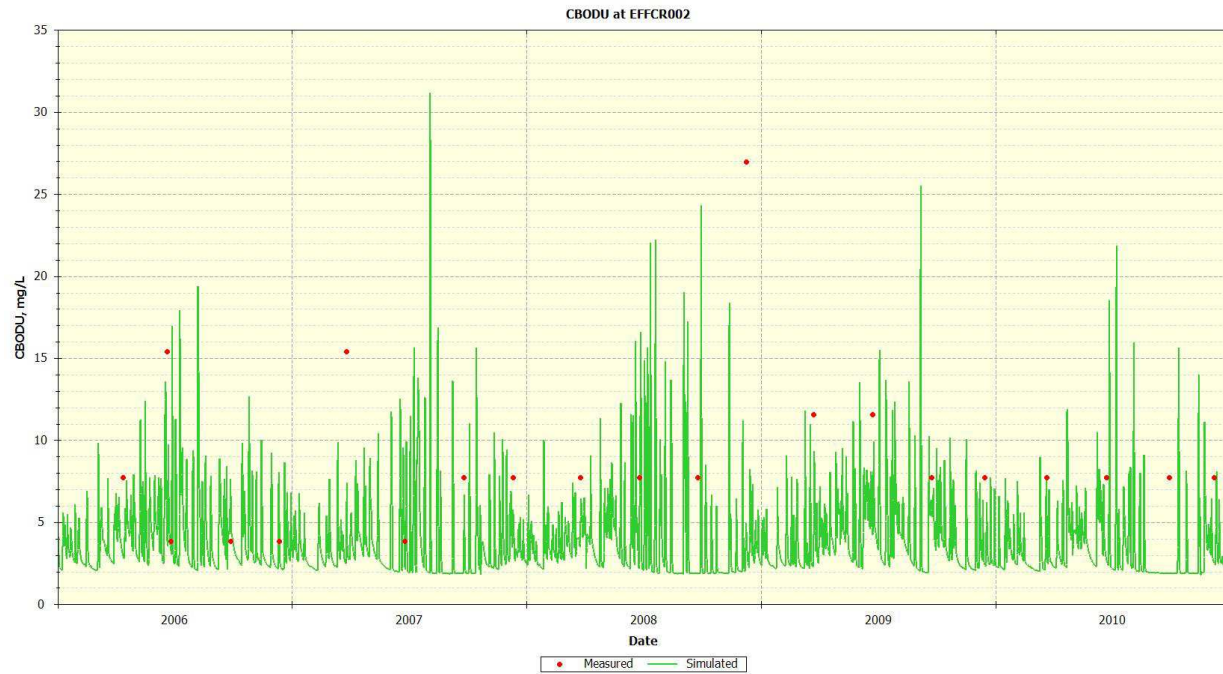


Figure A-357 Modeled vs. Observed CBOD (mg/L) at EFFCR002

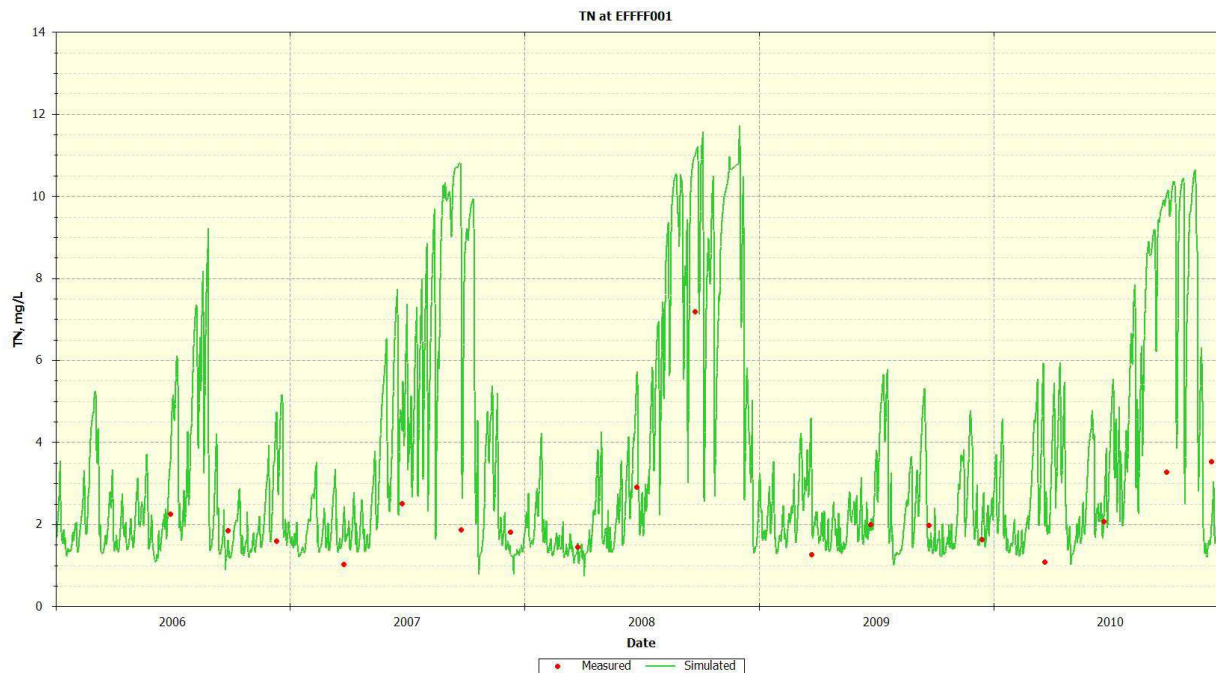


Figure A-358 Modeled vs. Observed TN (mg/L) at EFFFF001

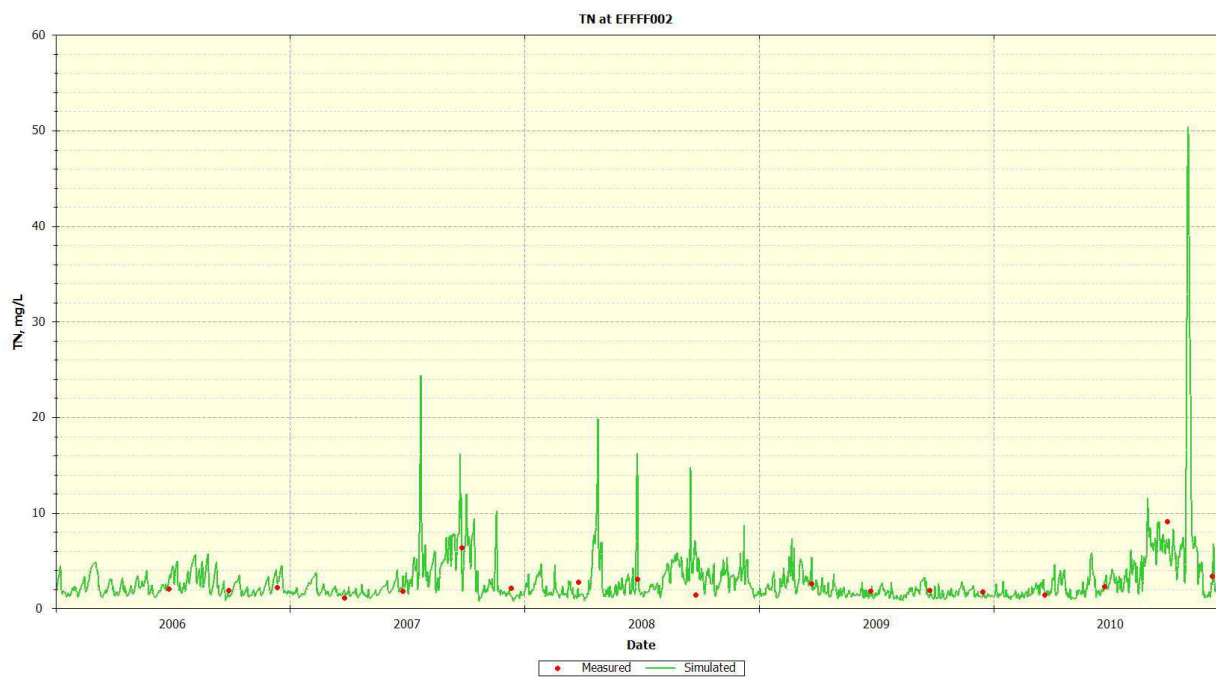


Figure A-359 Modeled vs. Observed TN (mg/L) at EFFFF002

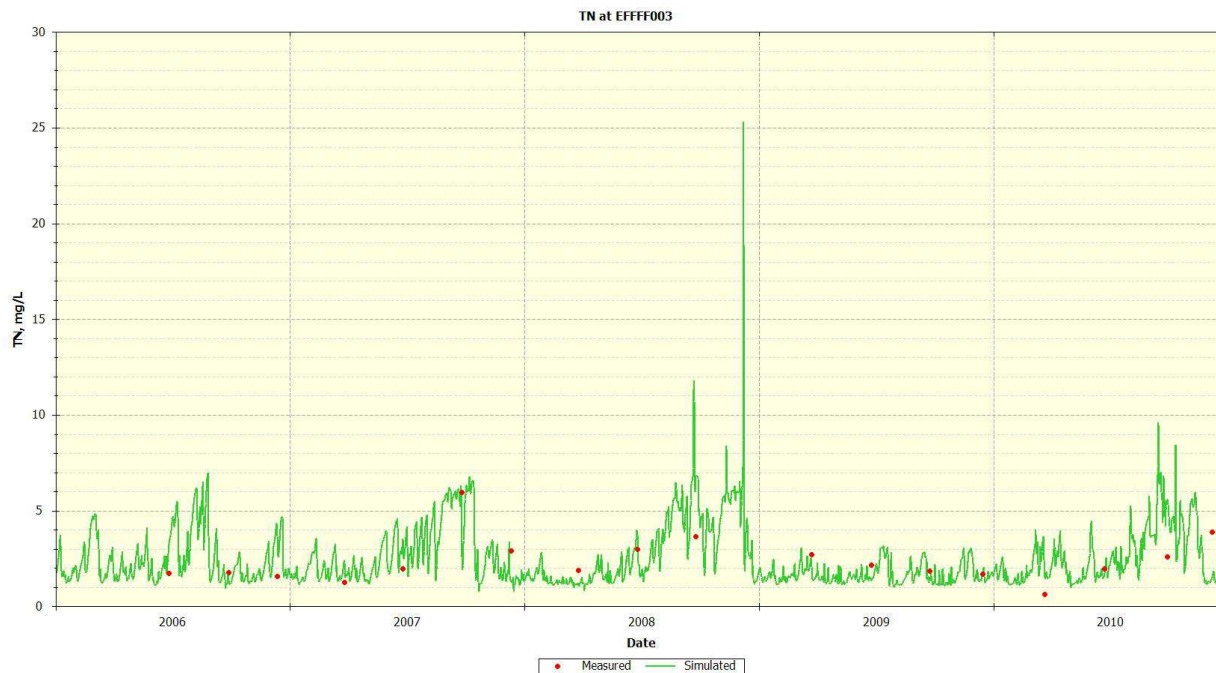


Figure A-360 Modeled vs. Observed TN (mg/L) at EFFFF003

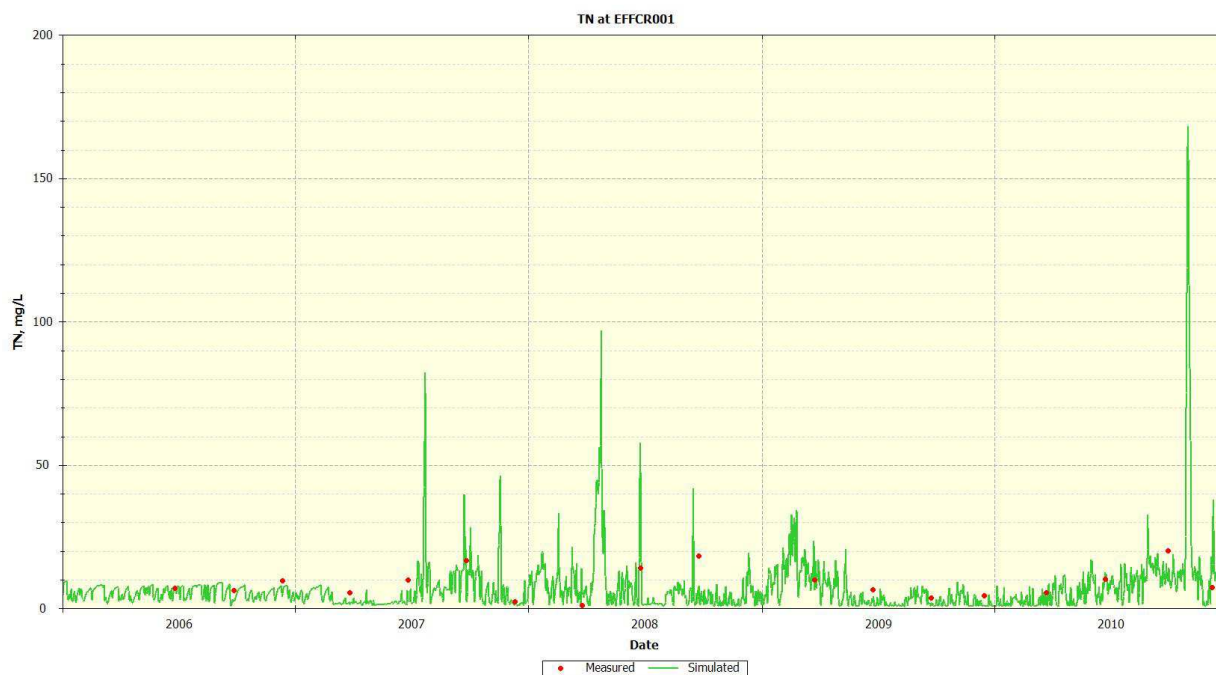


Figure A-361 Modeled vs. Observed TN (mg/L) at EFFCR001

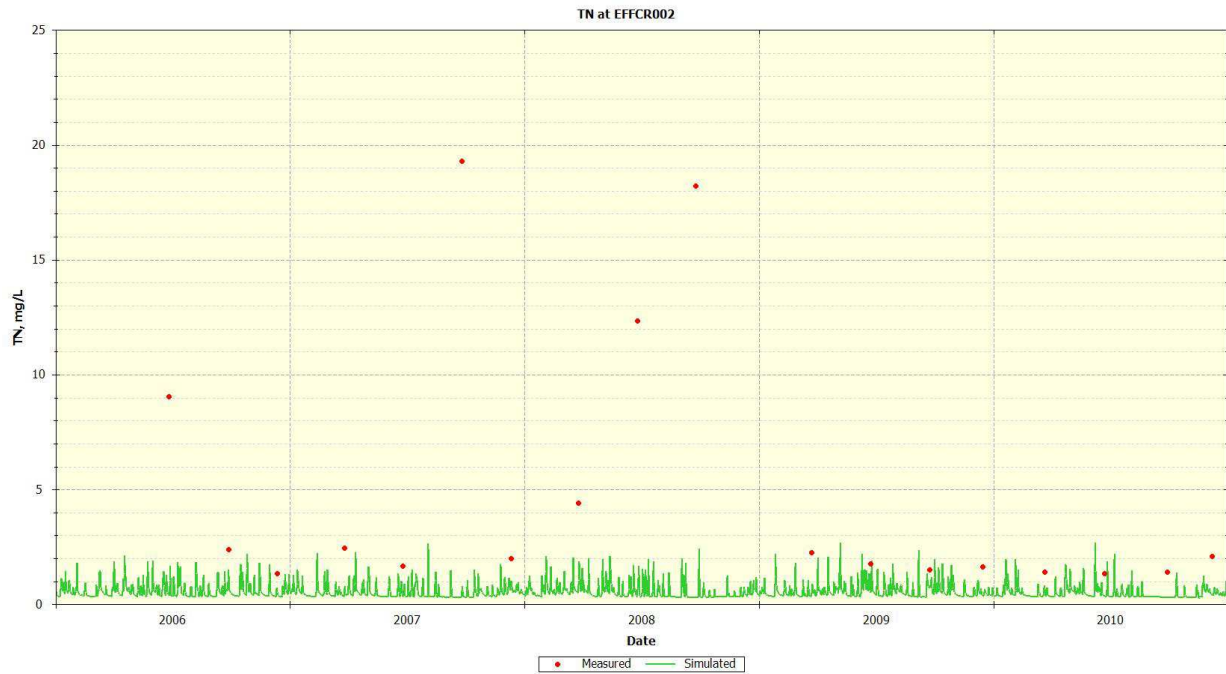


Figure A-362 Modeled vs. Observed TN (mg/L) at EFFCR002

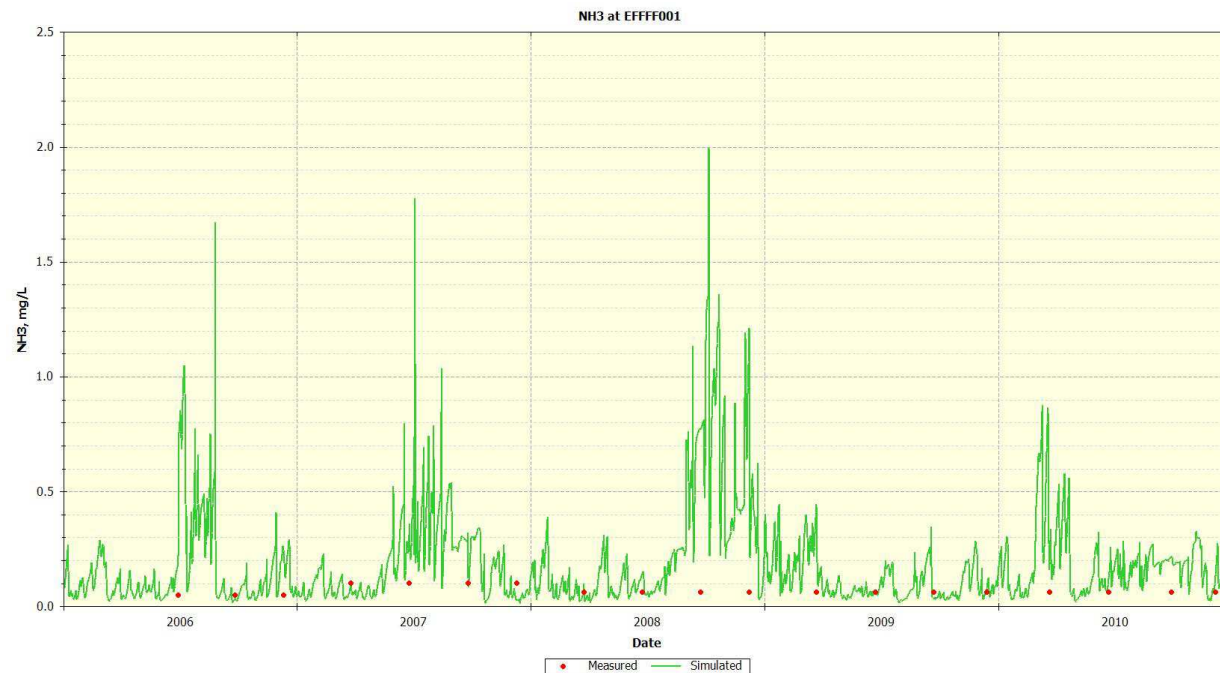


Figure A-363 Modeled vs. Observed NH₃ (mg/L) at EFFFF001

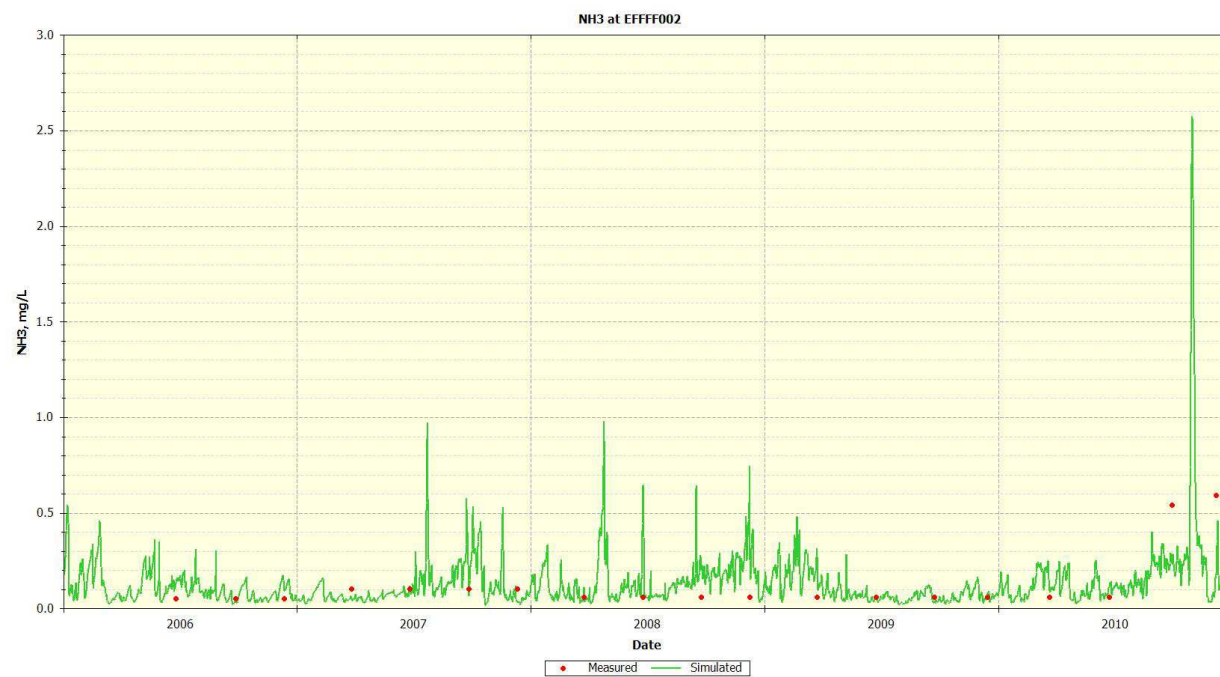


Figure A-364 Modeled vs. Observed NH₃ (mg/L) at EFFFF002

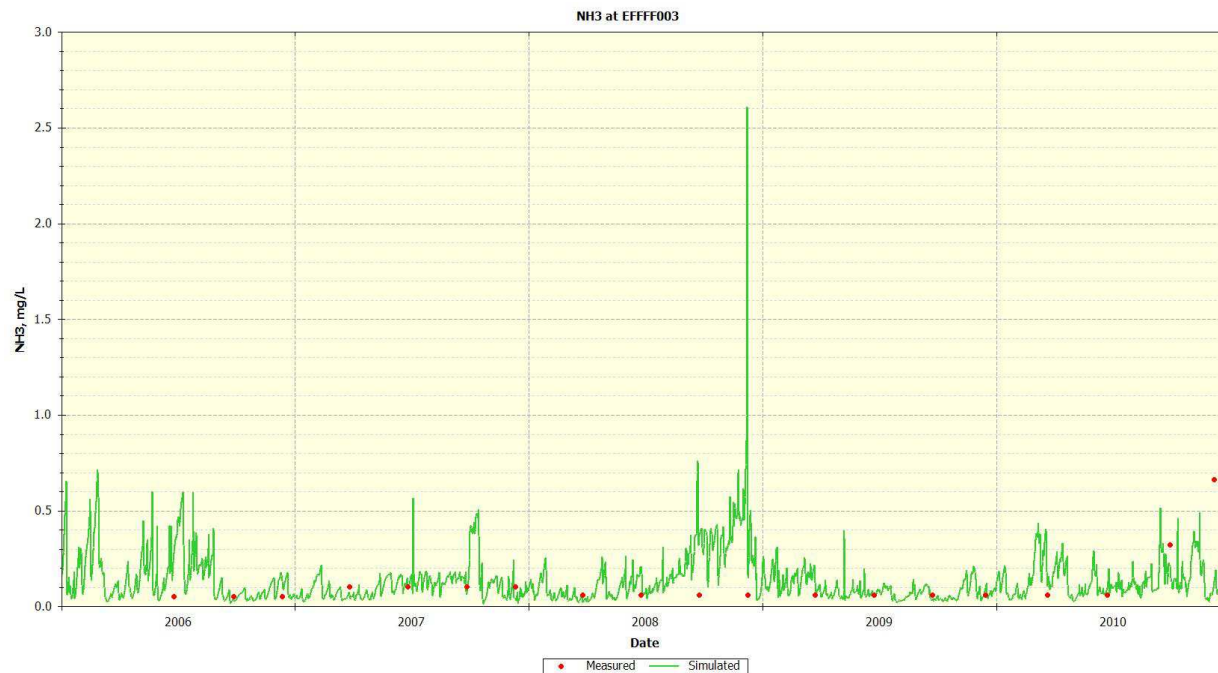


Figure A-365 Modeled vs. Observed NH₃ (mg/L) at EFFFF003

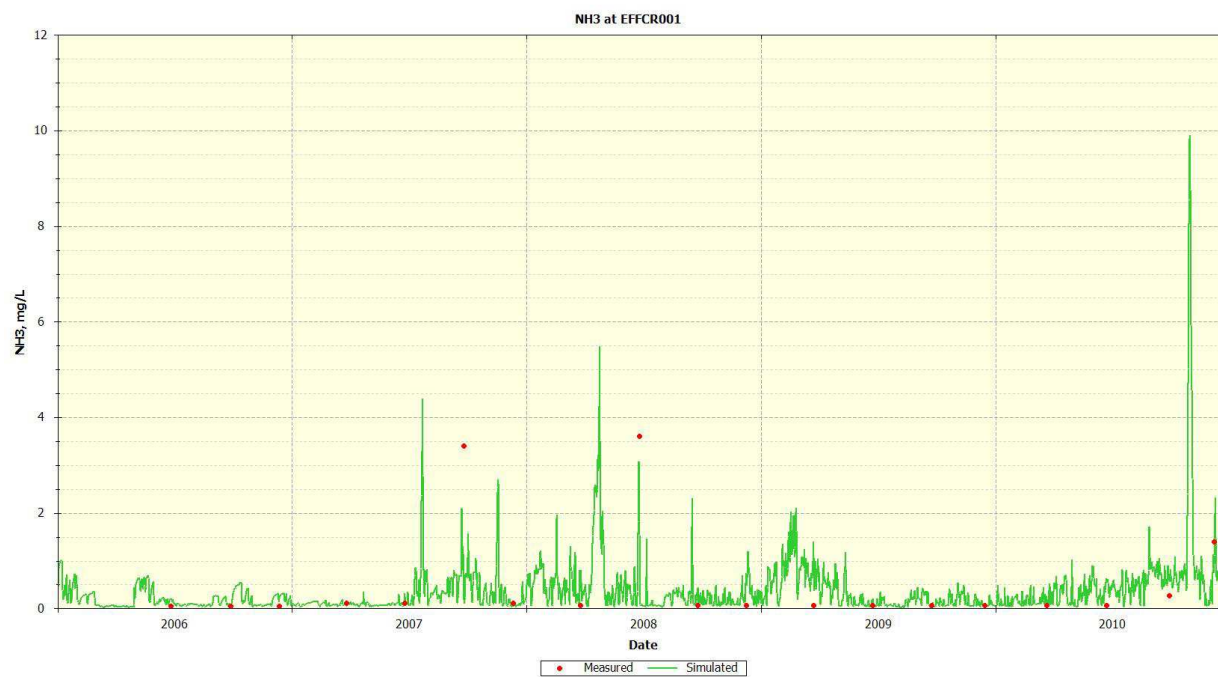


Figure A-366 Modeled vs. Observed NH₃ (mg/L) at EFFCR001



Figure A-367 Modeled vs. Observed NH₃ (mg/L) at EFFCR002

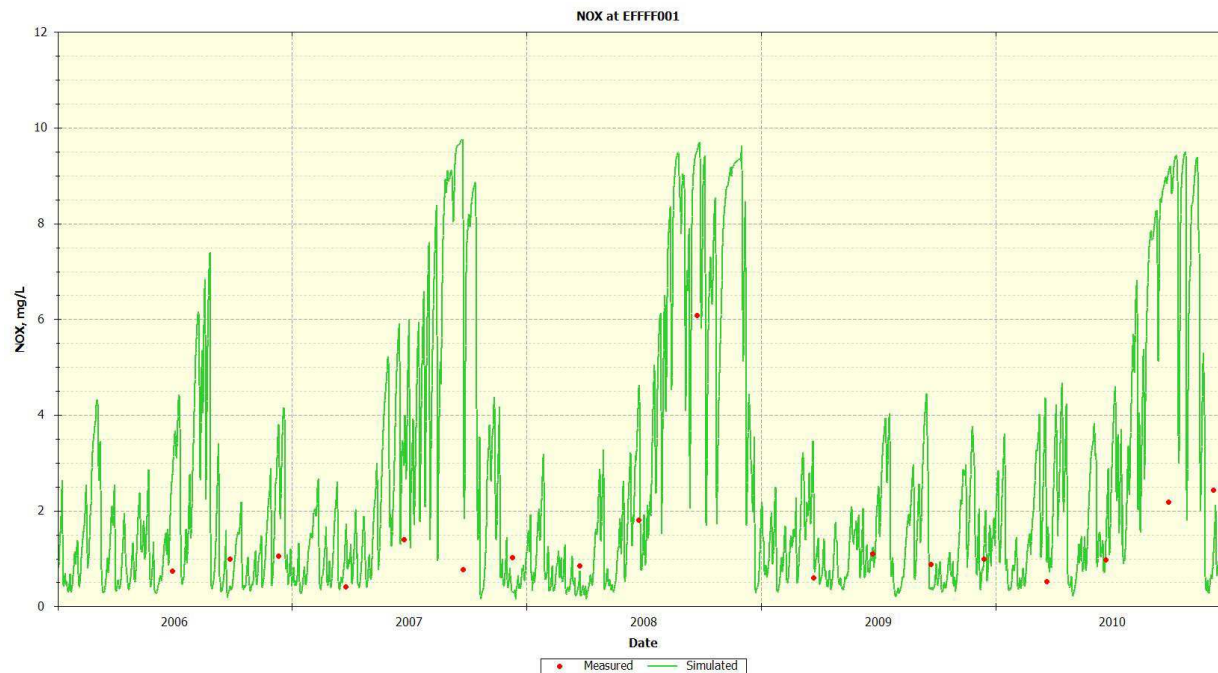


Figure A-368 Modeled vs. Observed NO_x (mg/L) at EFFFF001

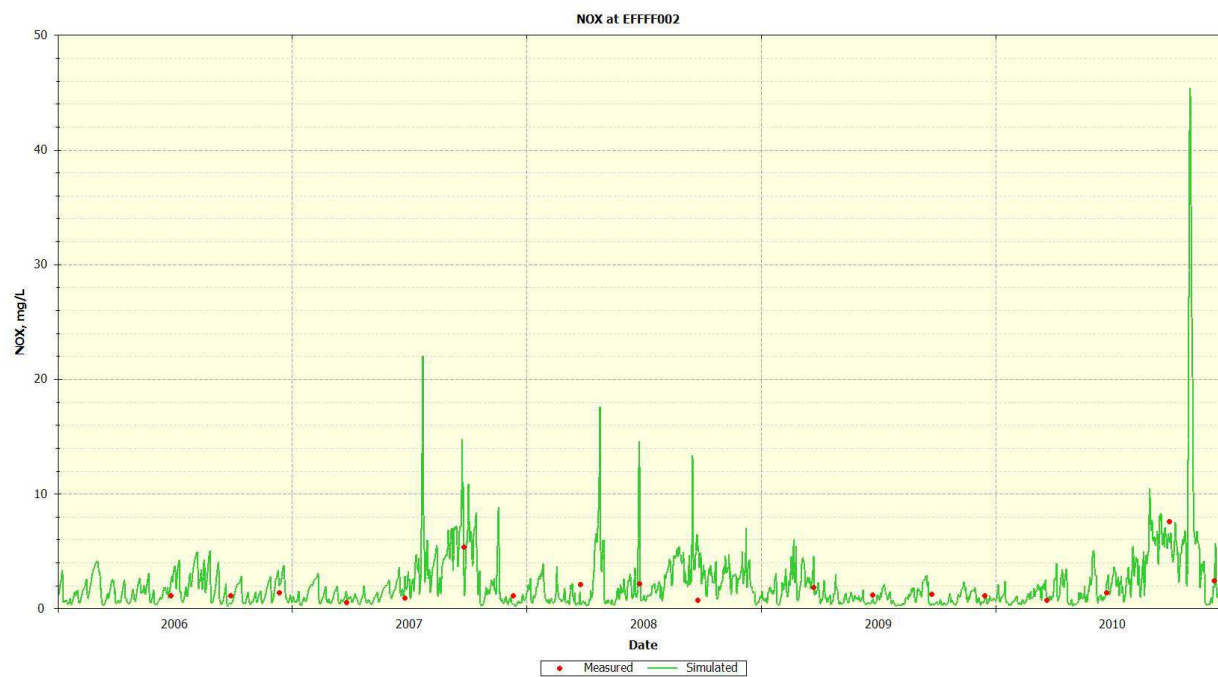


Figure A-369 Modeled vs. Observed NO_x (mg/L) at EFFFF002

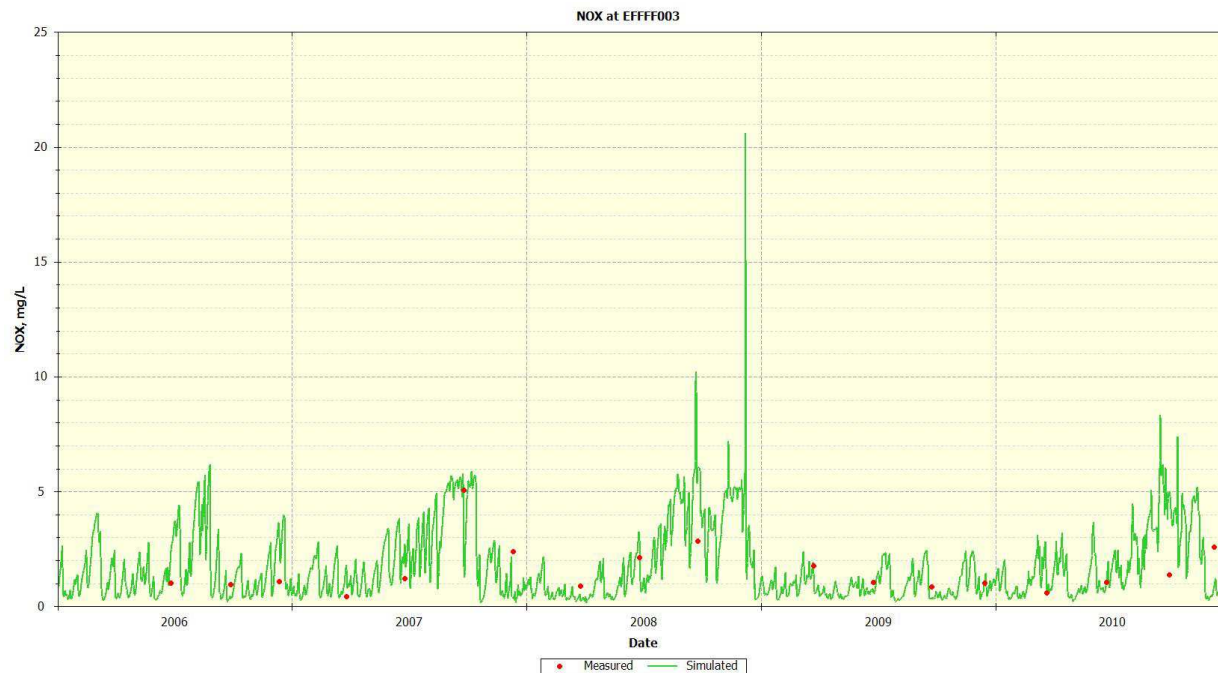


Figure A-370 Modeled vs. Observed NO_x (mg/L) at EFFFF003

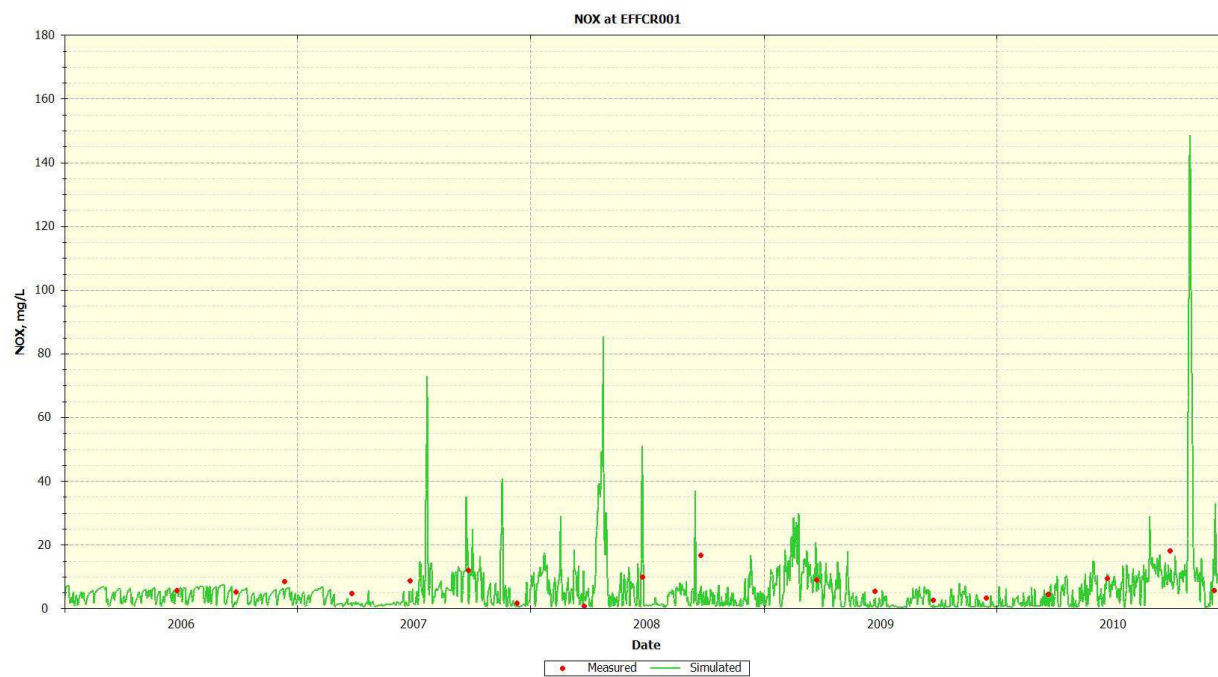


Figure A-371 Modeled vs. Observed NO_x (mg/L) at EFFCR001

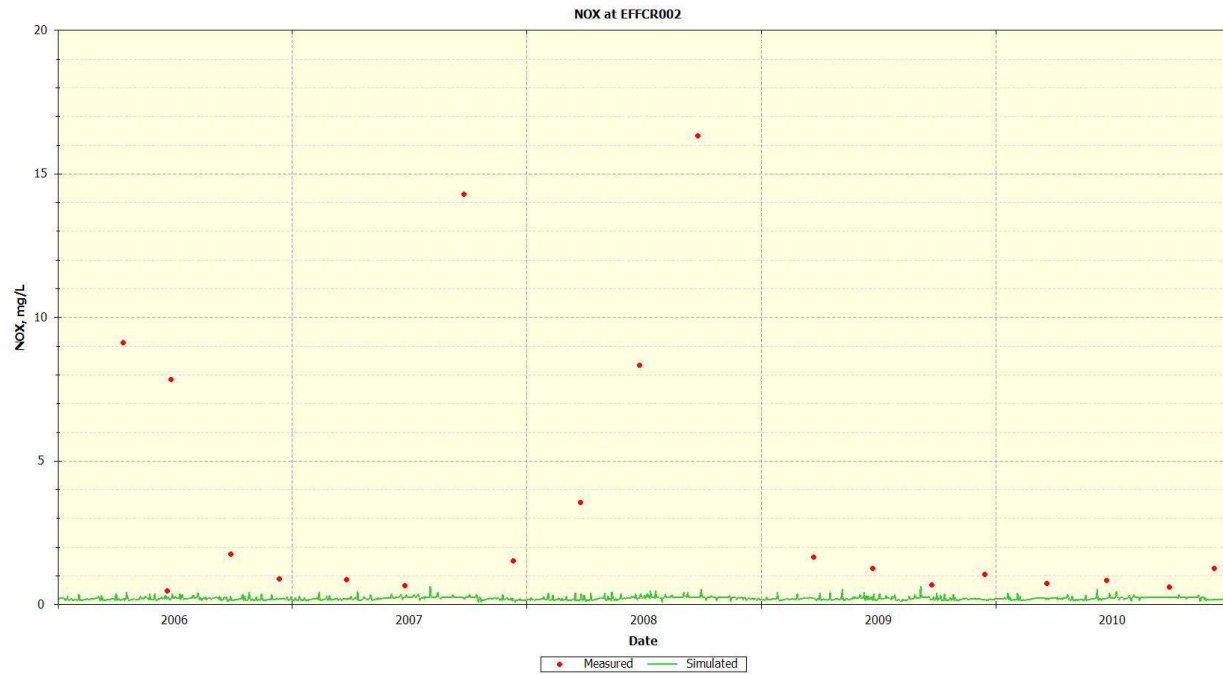


Figure A-372 Modeled vs. Observed NO_x (mg/L) at EFFCR002

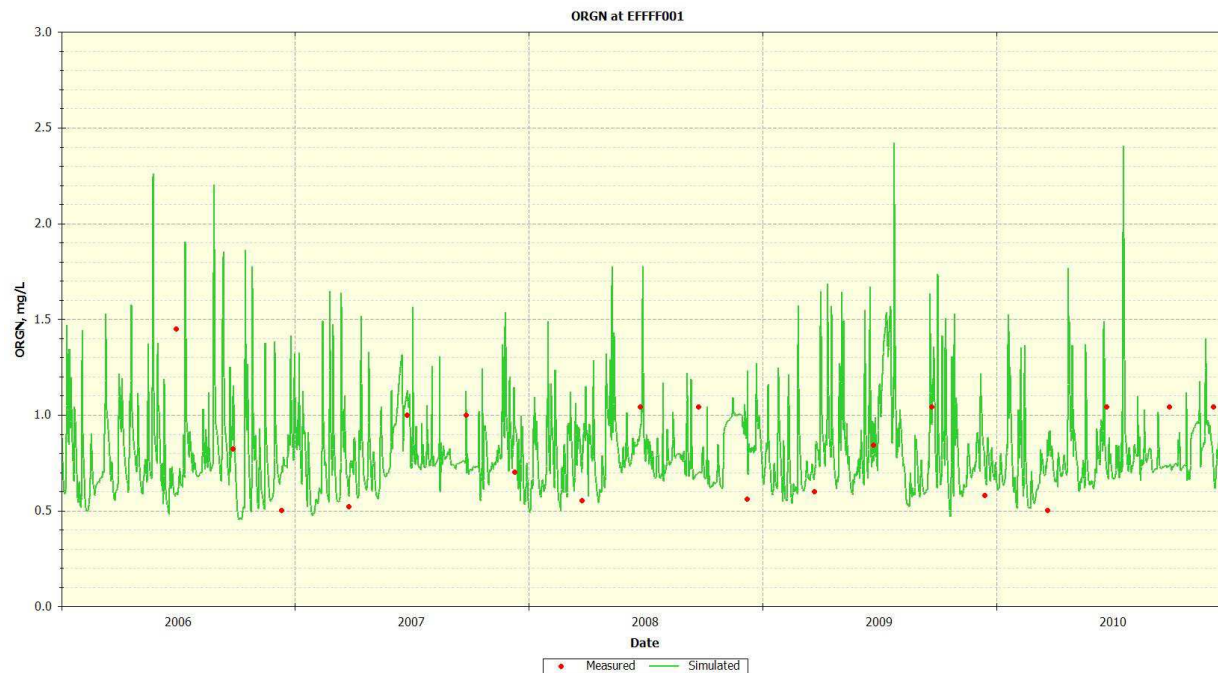


Figure A-373 Modeled vs. Observed ORGN (mg/L) at EFFFF001

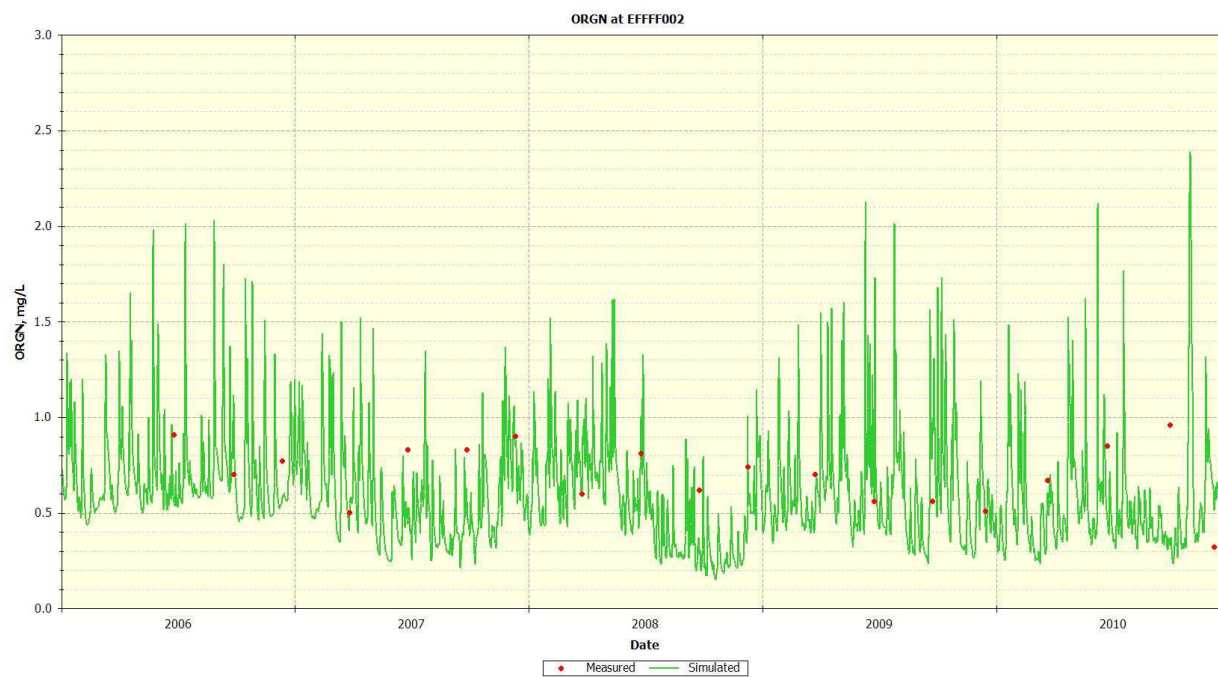


Figure A-374 Modeled vs. Observed ORGN (mg/L) at EFFFF002

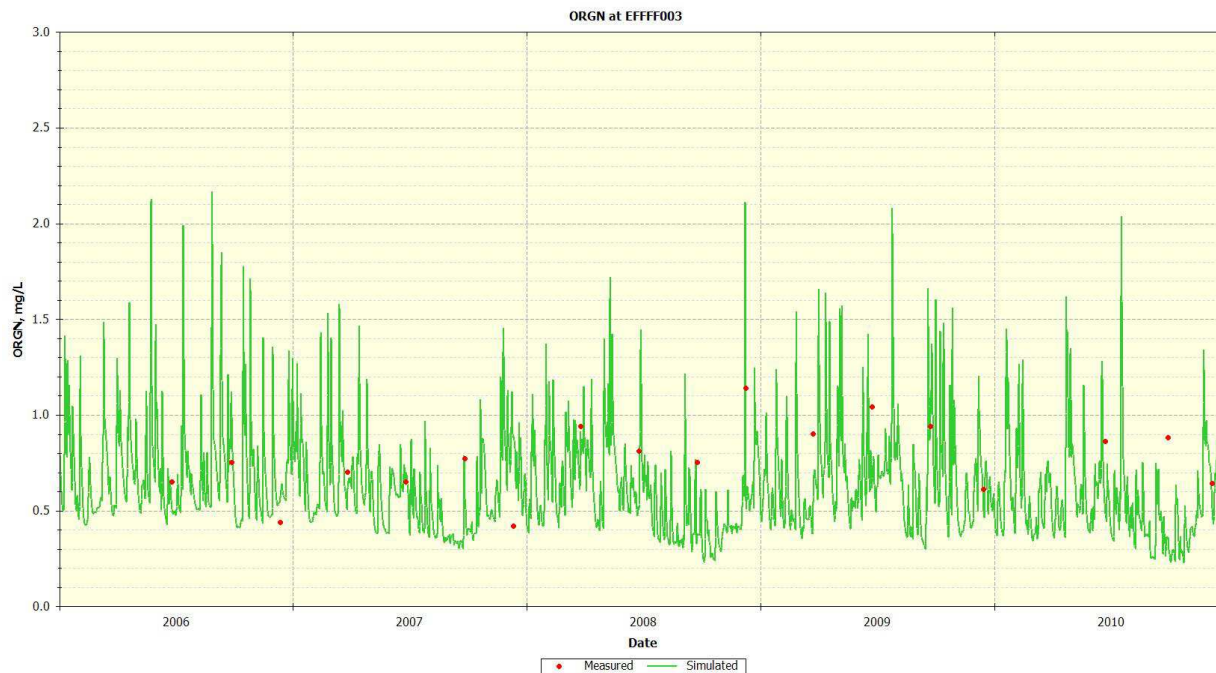


Figure A-375 Modeled vs. Observed ORGN (mg/L) at EFFFF003

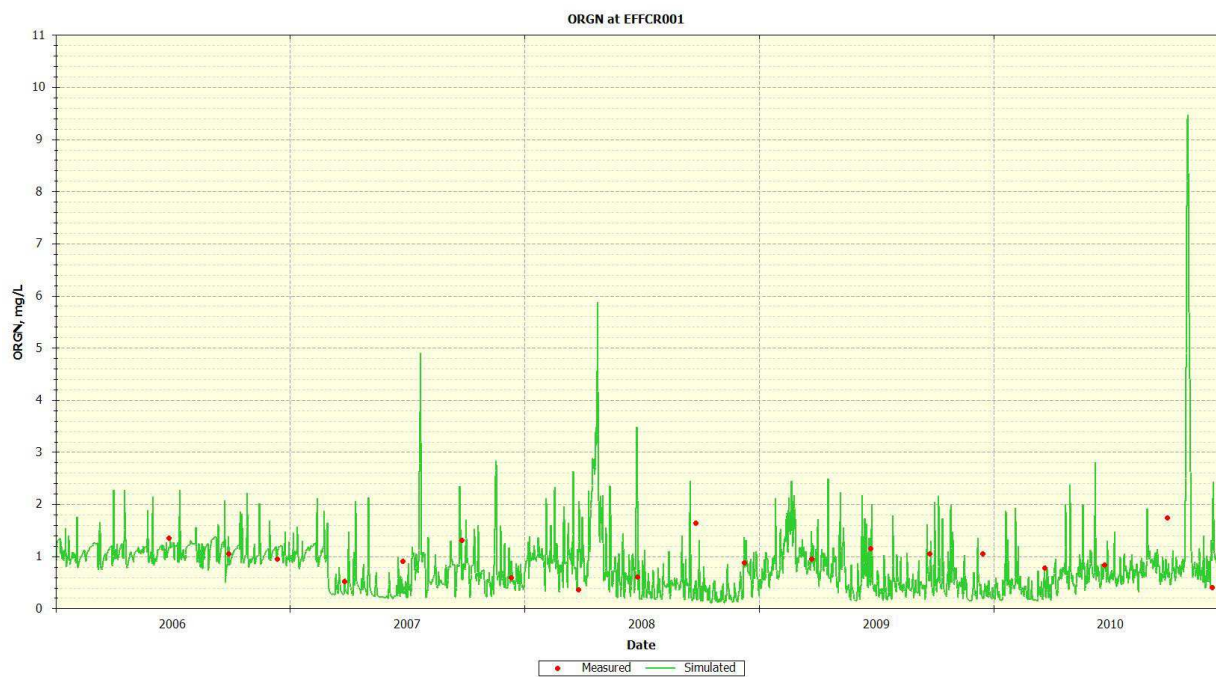


Figure A-376 Modeled vs. Observed ORGN (mg/L) at EFFCR001

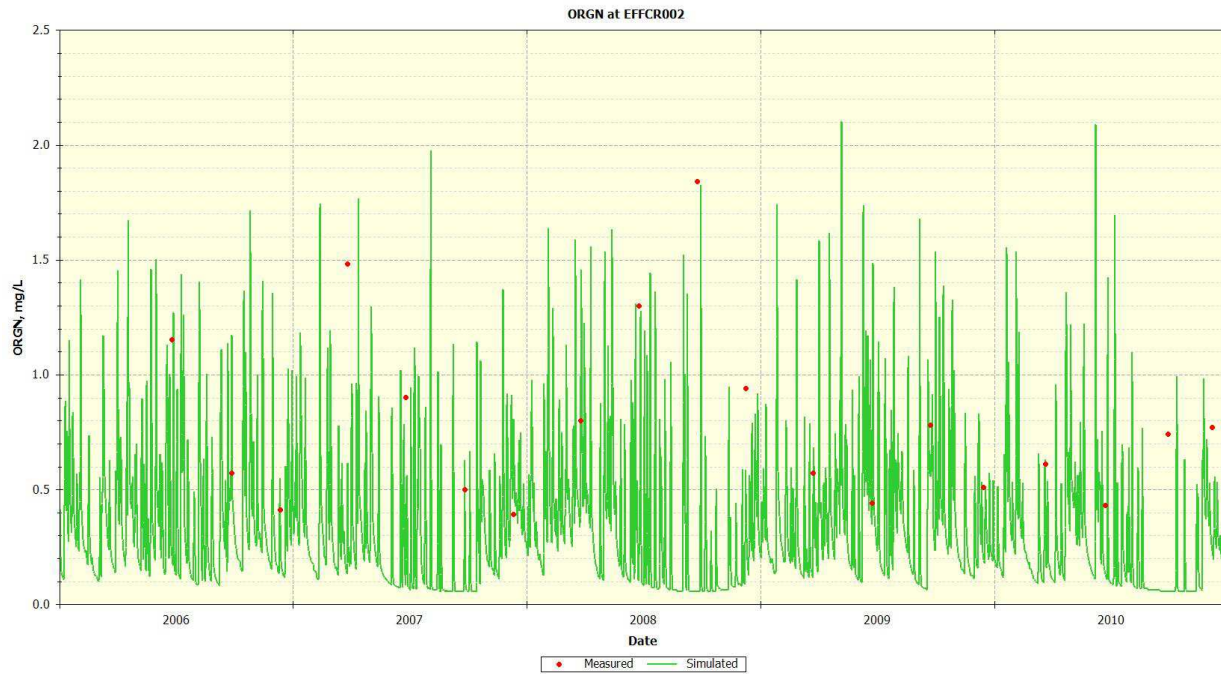


Figure A-377 Modeled vs. Observed ORGN (mg/L) at EFFCR002

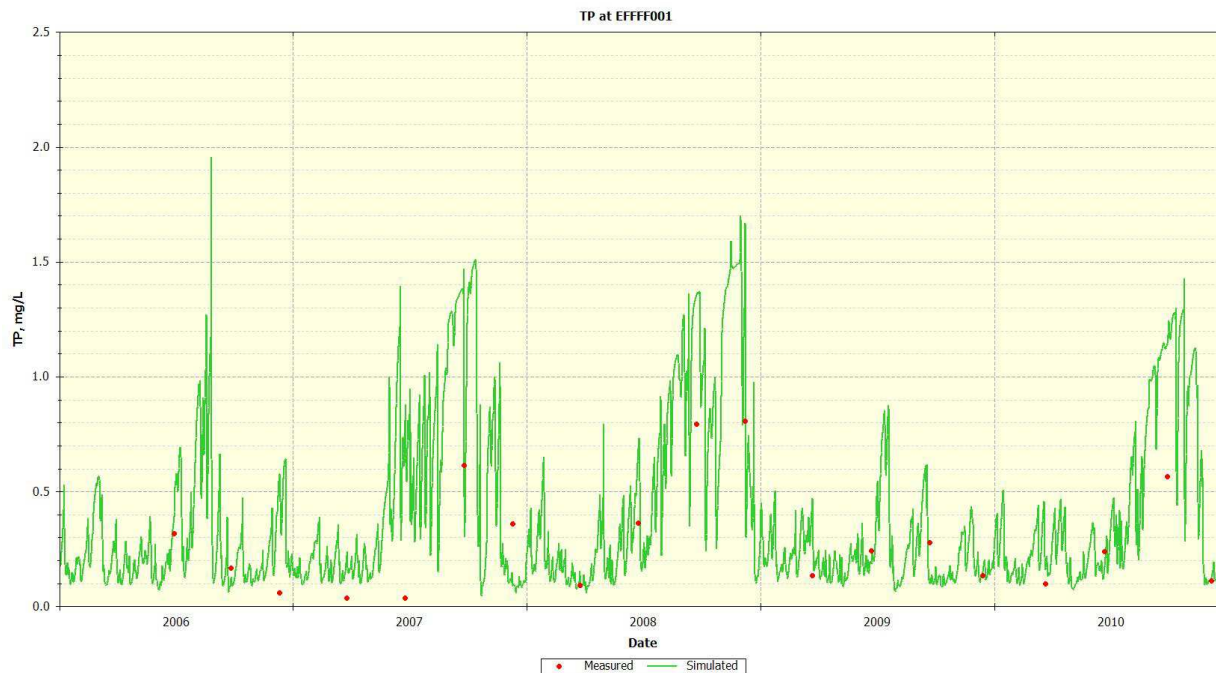


Figure A-378 Modeled vs. Observed TP (mg/L) at EFFFF001

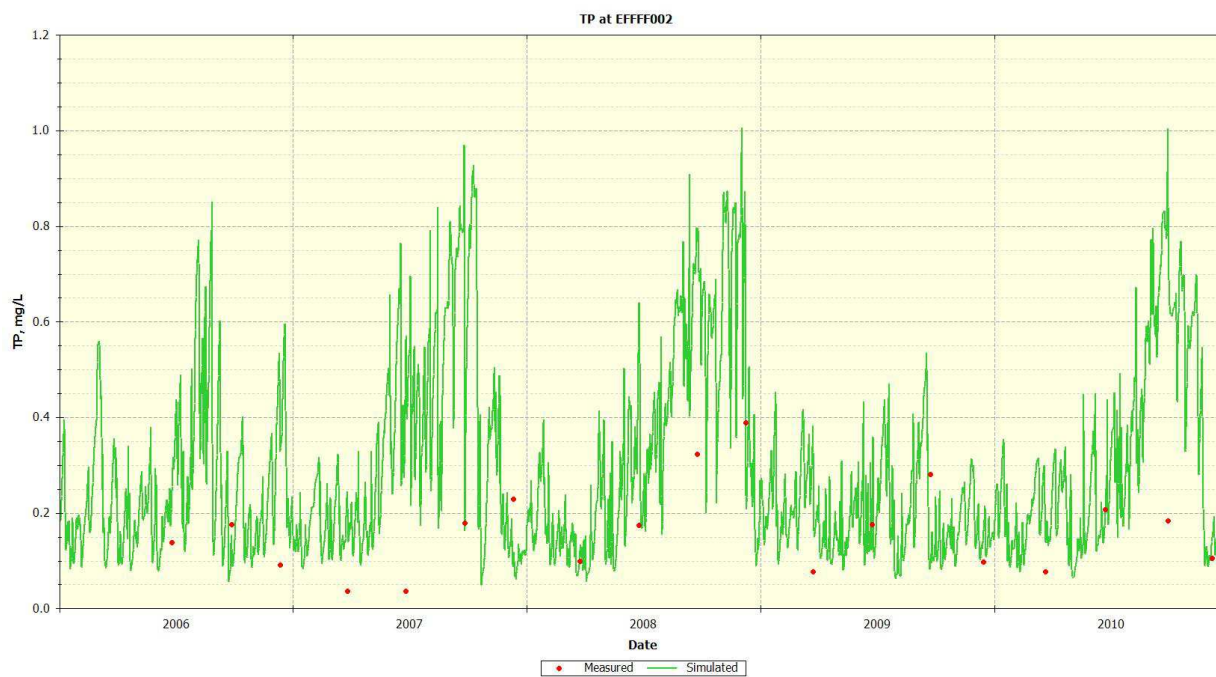


Figure A-379 Modeled vs. Observed TP (mg/L) at EFFFF002

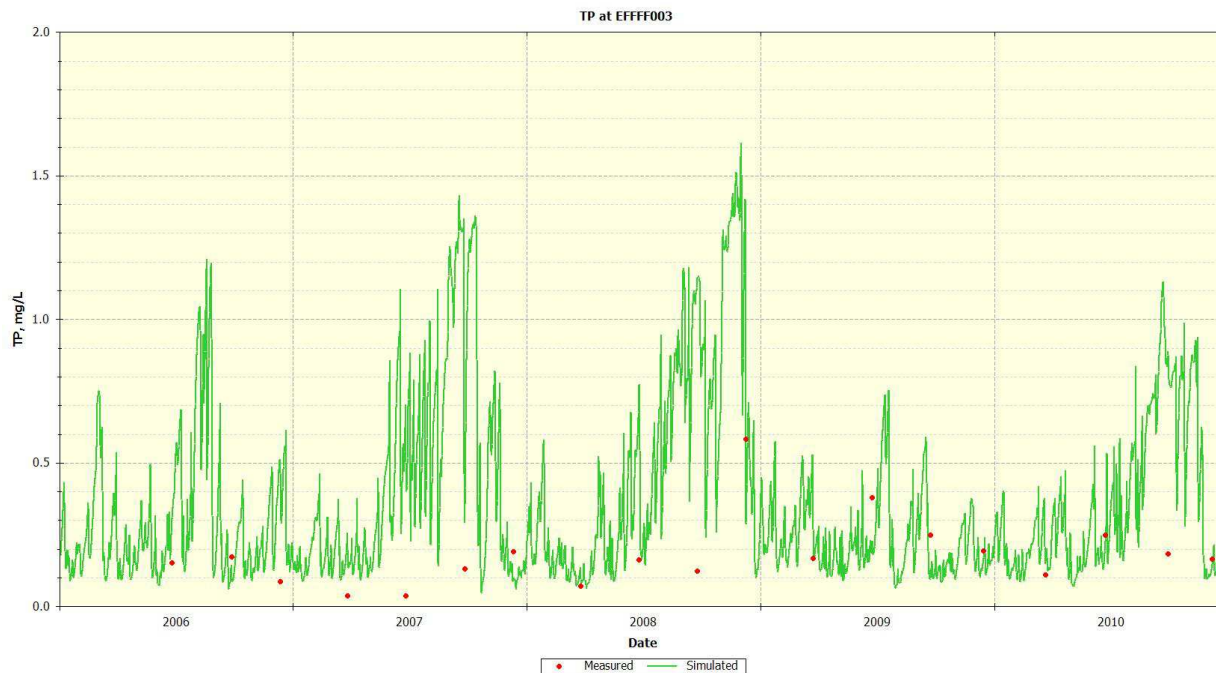


Figure A-380 Modeled vs. Observed TP (mg/L) at EFFF003

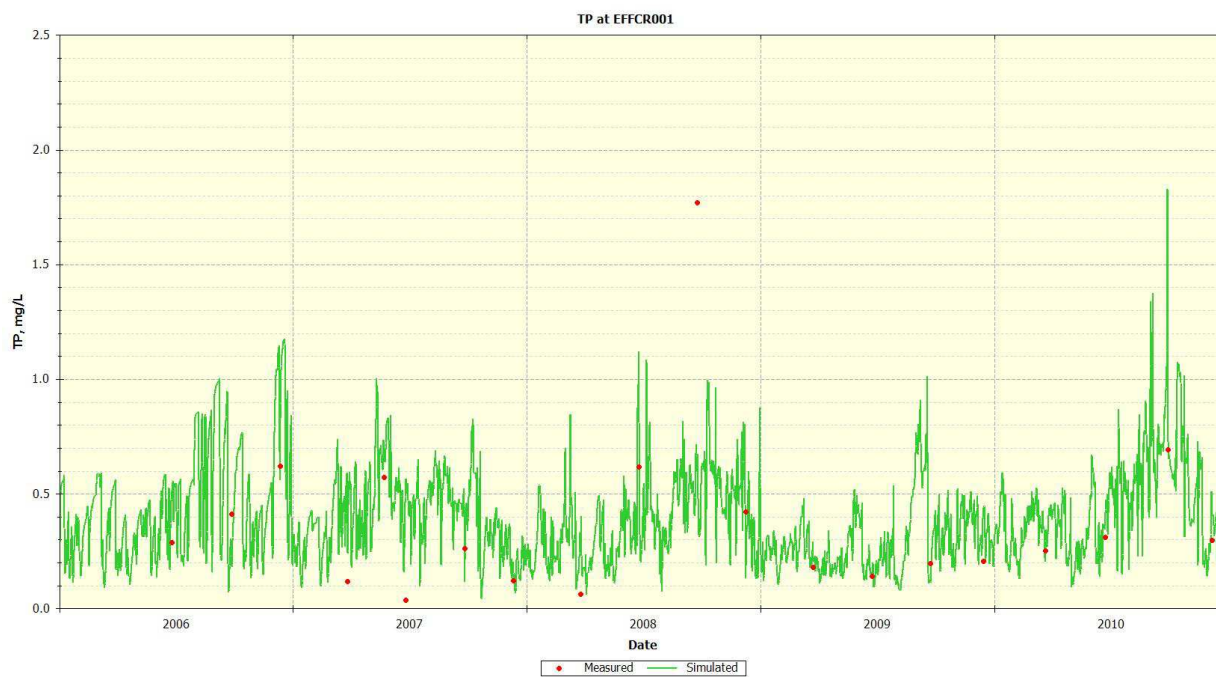


Figure A-381 Modeled vs. Observed TP (mg/L) at EFFCR001

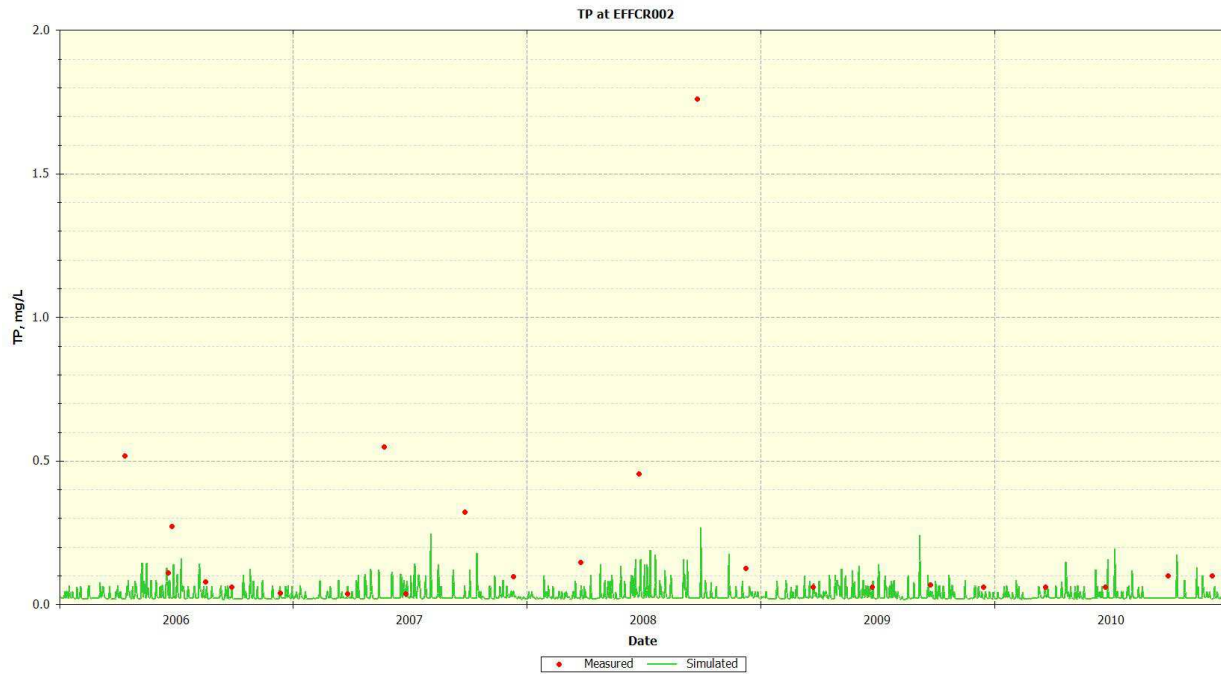
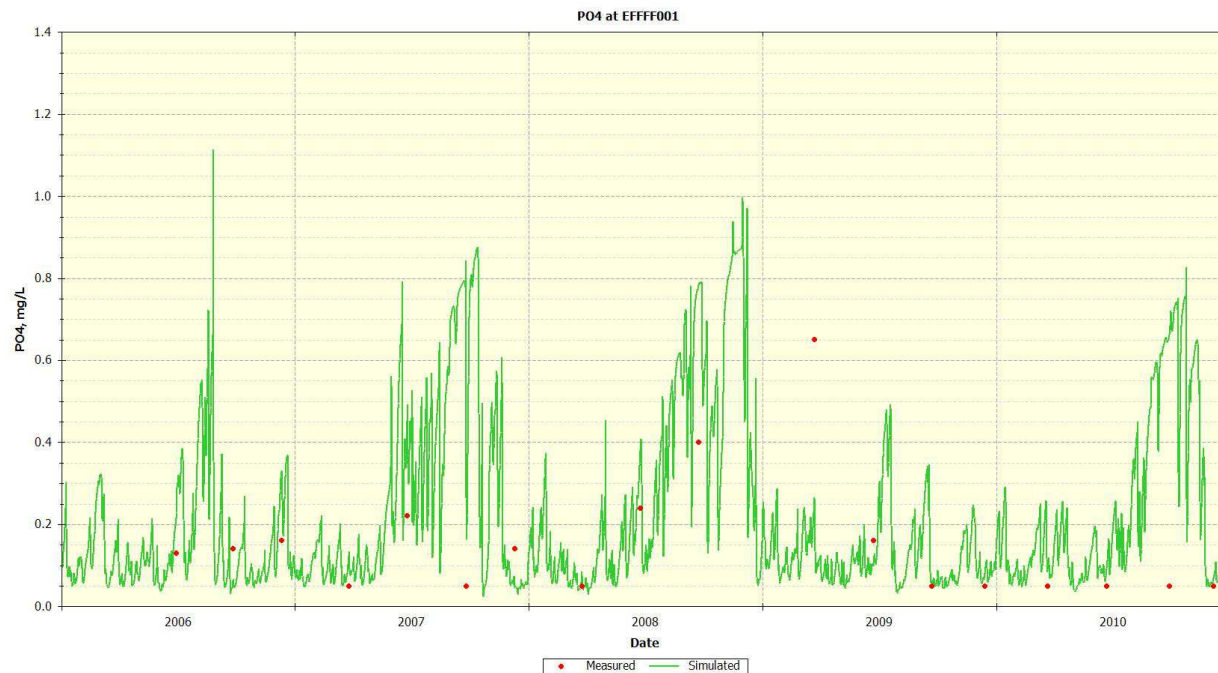
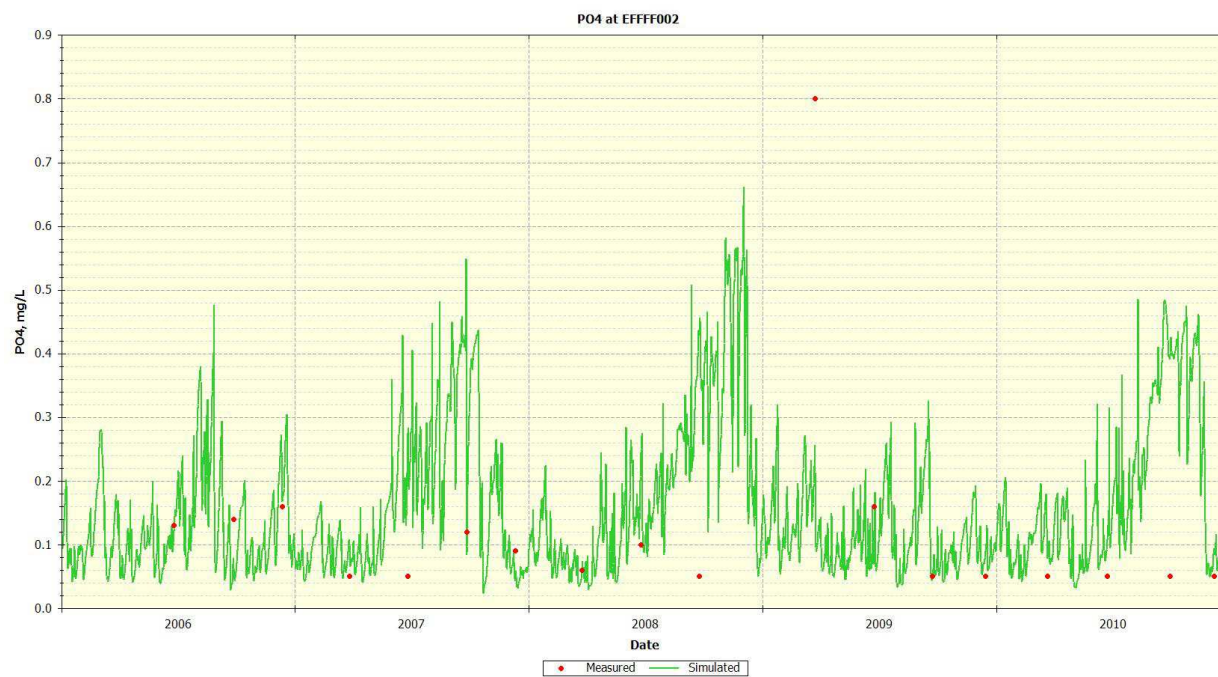
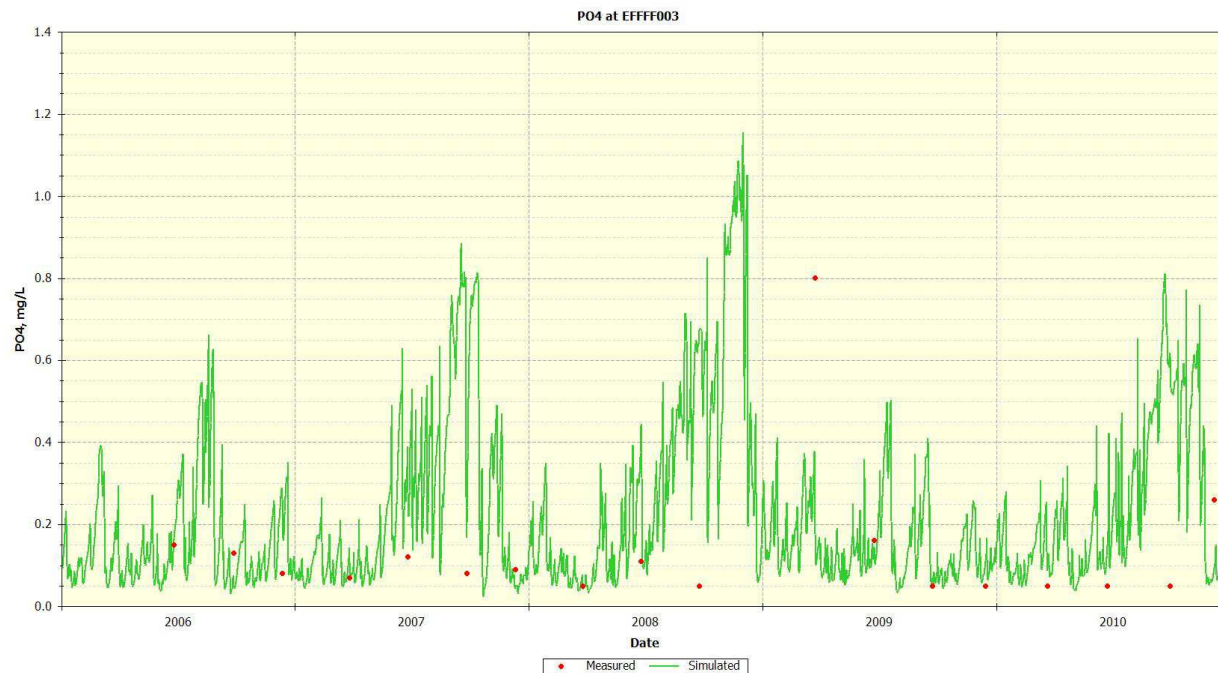
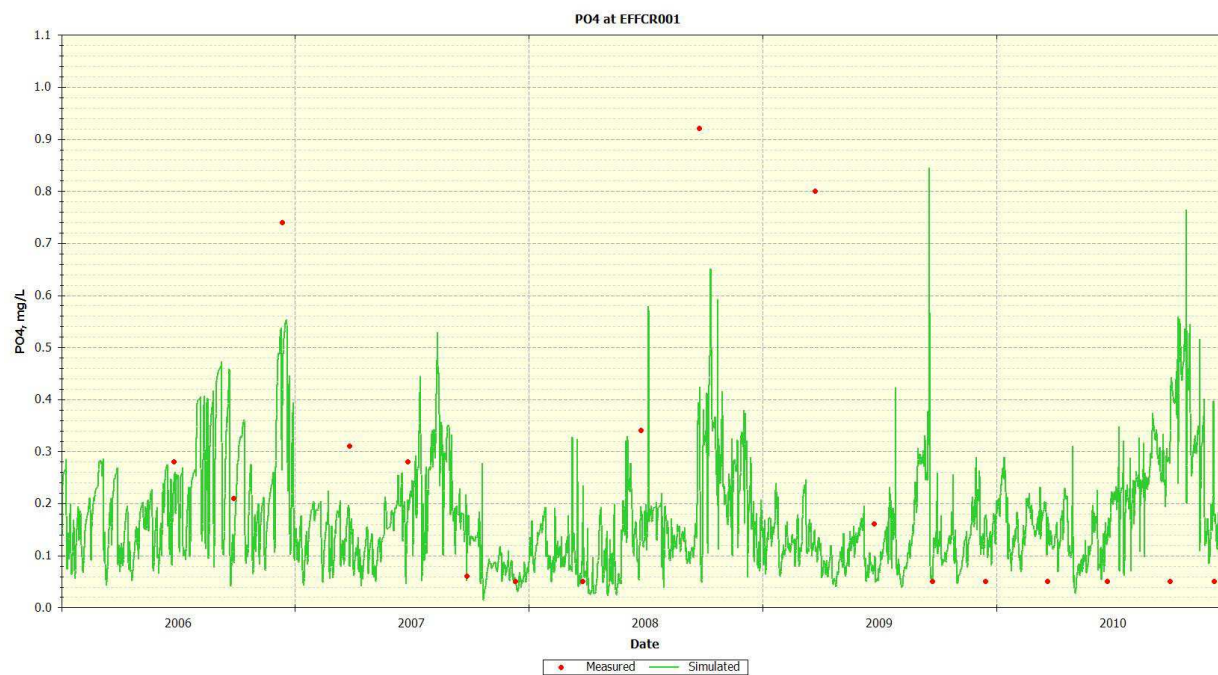


Figure A-382 Modeled vs. Observed TP (mg/L) at EFFCR002

Figure A-383 Modeled vs. Observed PO₄ (mg/L) at EFFFF001Figure A-384 Modeled vs. Observed PO₄ (mg/L) at EFFFF002

Figure A-385 Modeled vs. Observed PO₄ (mg/L) at EFFF003Figure A-386 Modeled vs. Observed PO₄ (mg/L) at EFFCR001

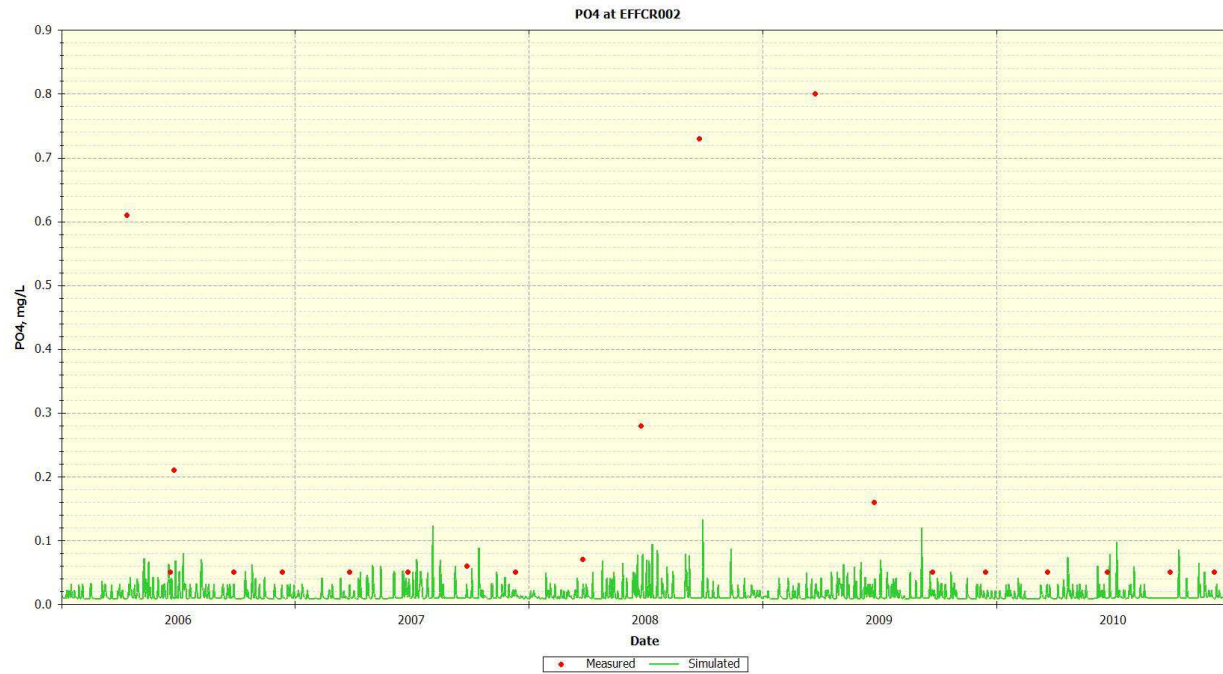


Figure A-387 Modeled vs. Observed PO₄ (mg/L) at EFFCR002

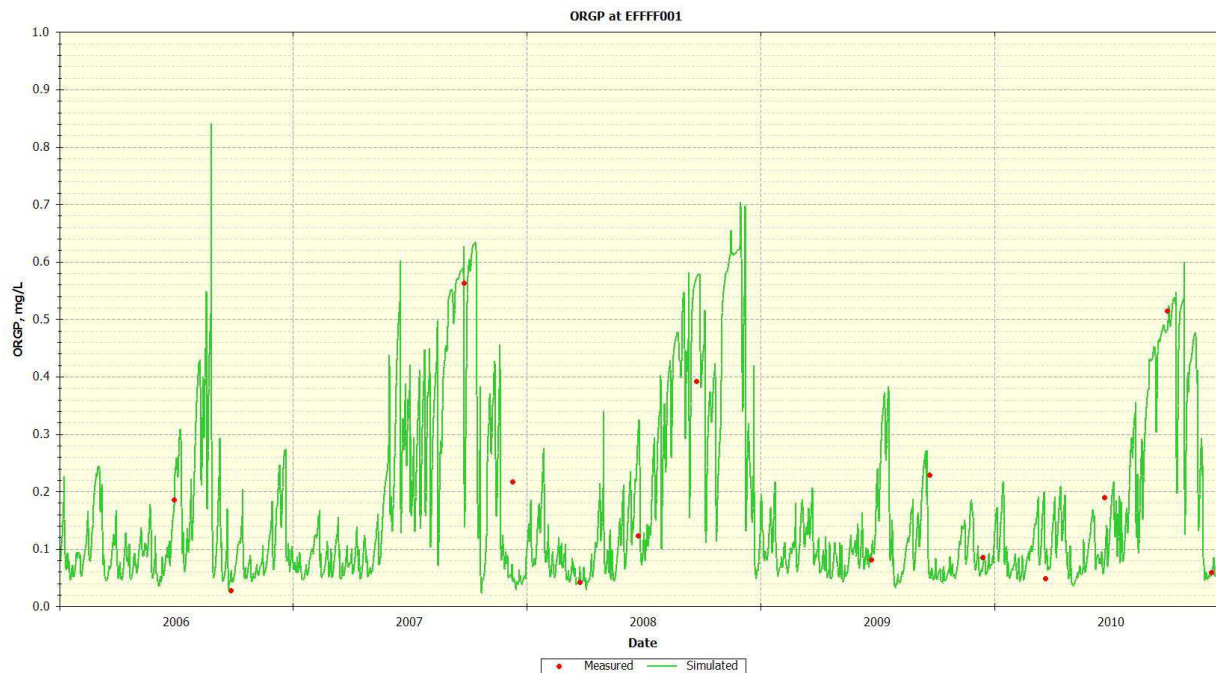


Figure A-388 Modeled vs. Observed ORGP (mg/L) at EFFFF001

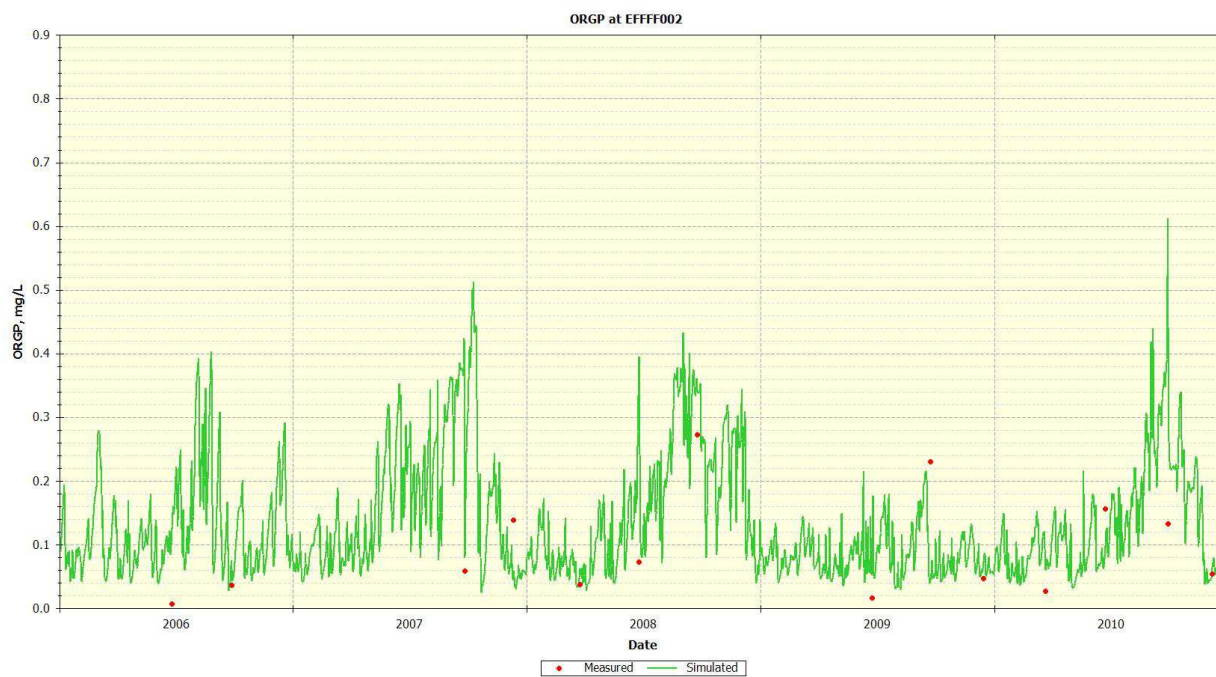


Figure A-389 Modeled vs. Observed ORGP (mg/L) at EFFFF002

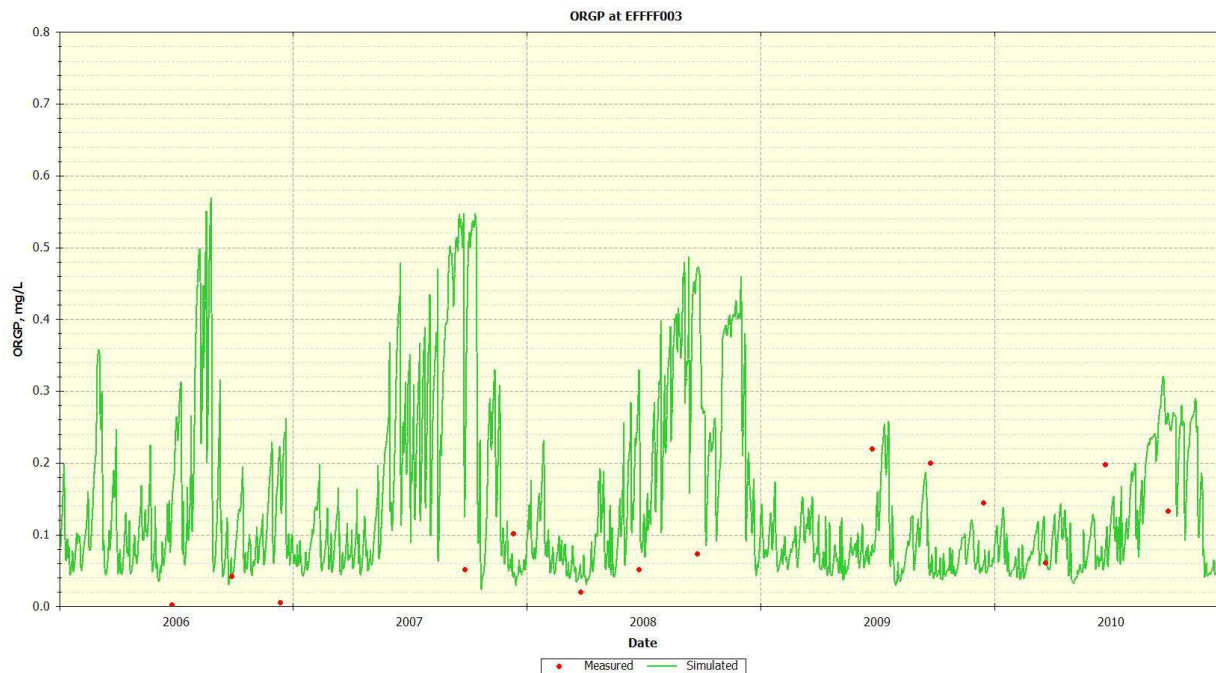


Figure A-390 Modeled vs. Observed ORGP (mg/L) at EFFFF003

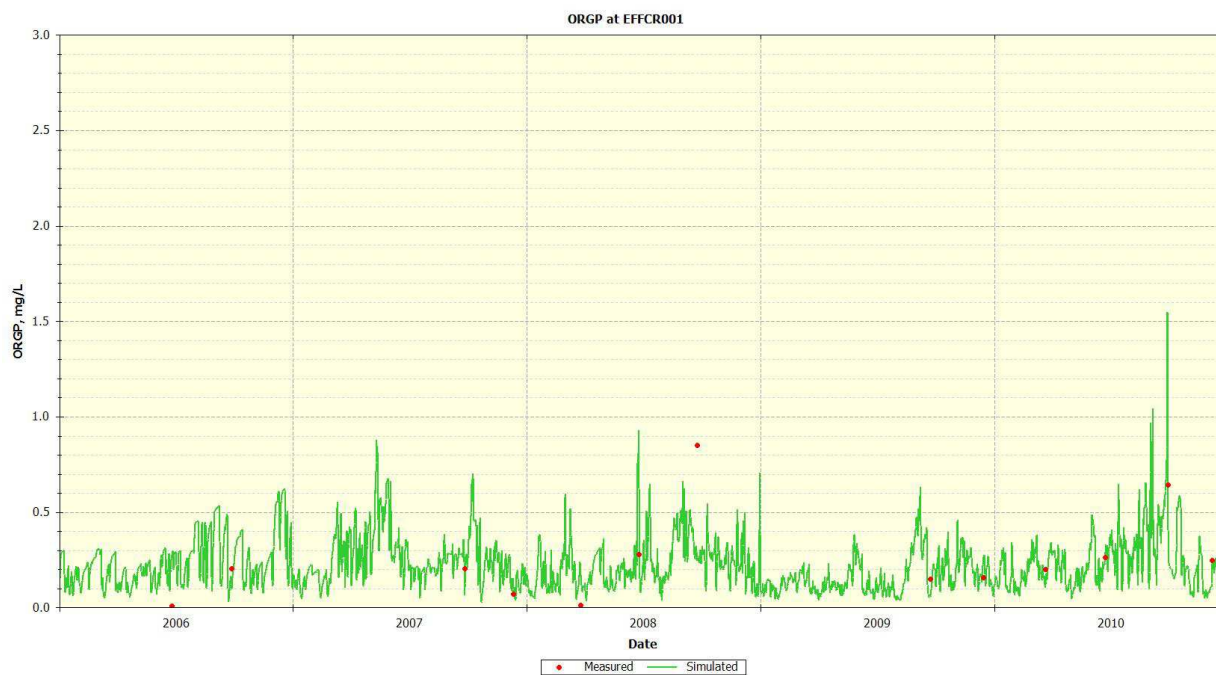


Figure A-391 Modeled vs. Observed ORGP (mg/L) at EFFCR001

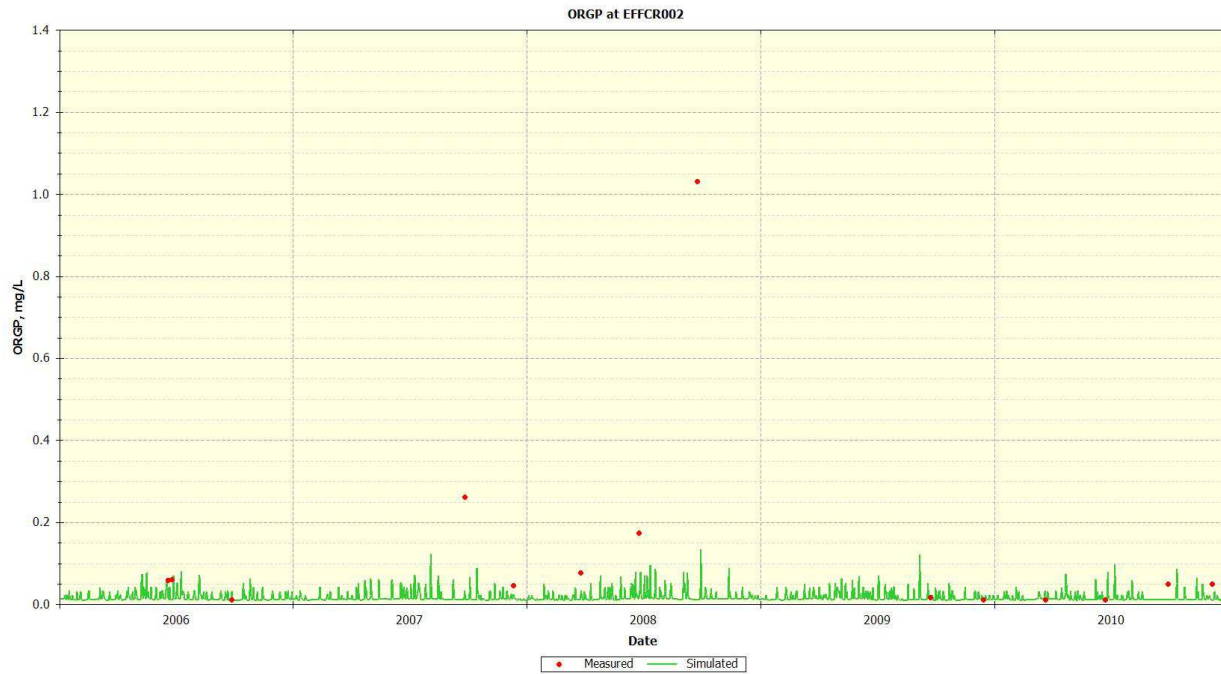


Figure A-392 Modeled vs. Observed ORGP (mg/L) at EFFCR002

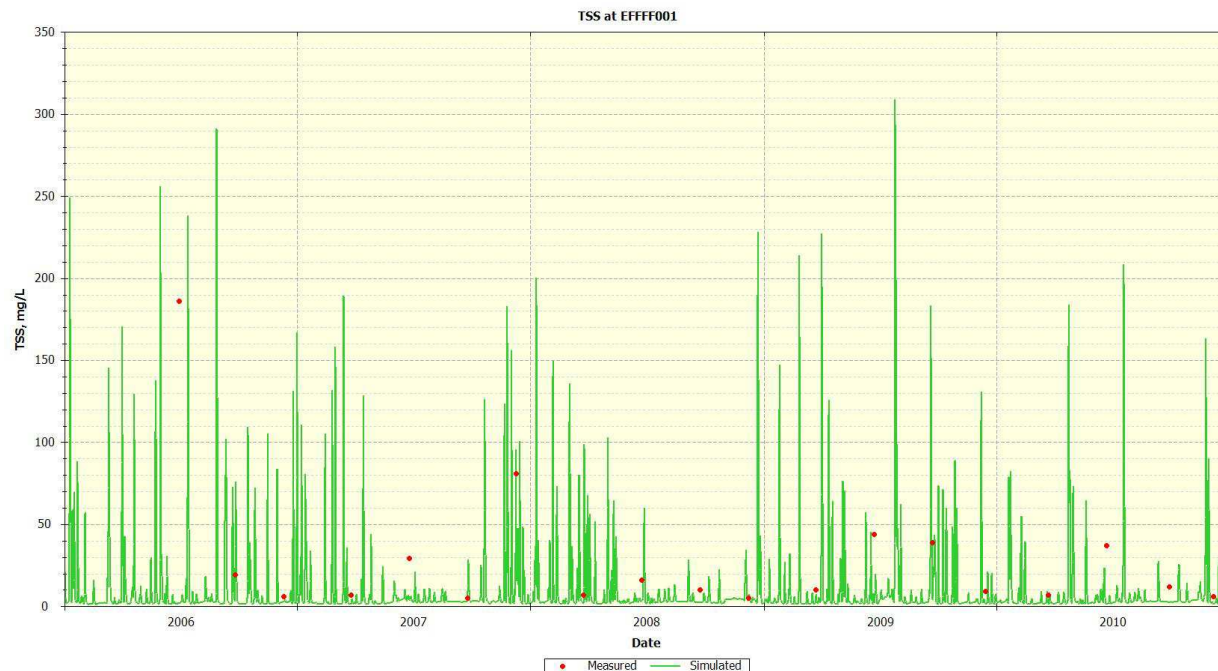


Figure A-393 Modeled vs. Observed TSS (mg/L) at EFFFF001

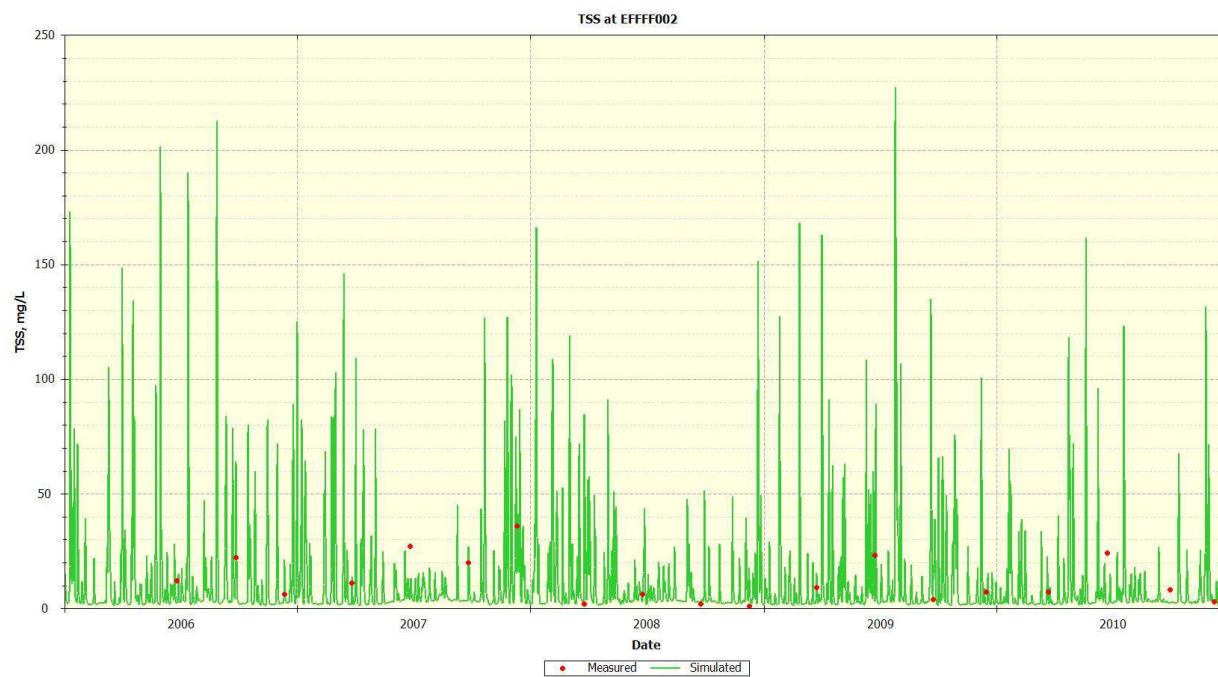


Figure A-394 Modeled vs. Observed TSS (mg/L) at EFFFF002

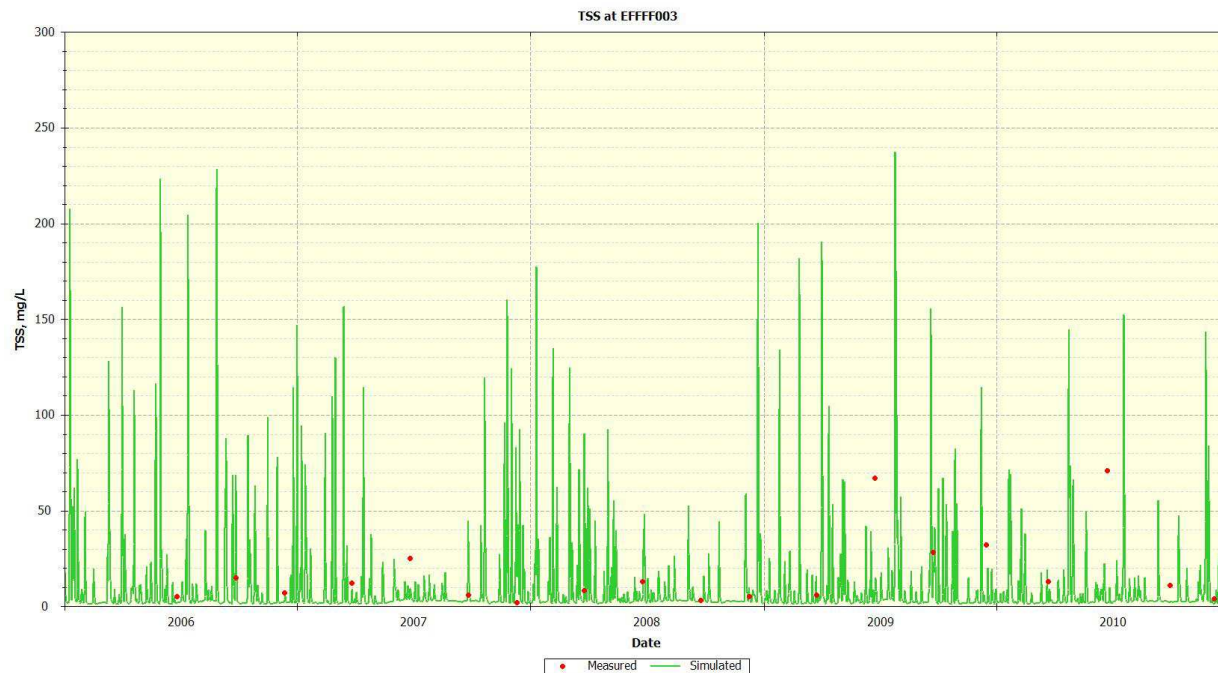


Figure A-395 Modeled vs. Observed TSS (mg/L) at EFFFF003

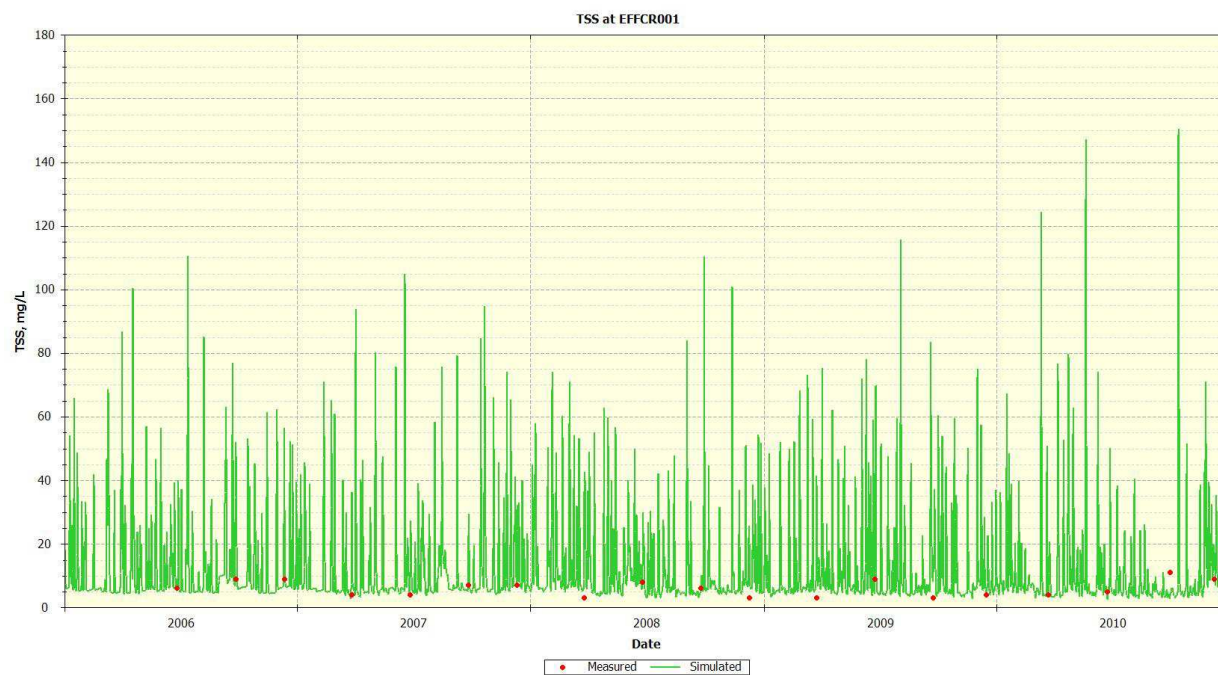


Figure A-396 Modeled vs. Observed TSS (mg/L) at EFFCR001

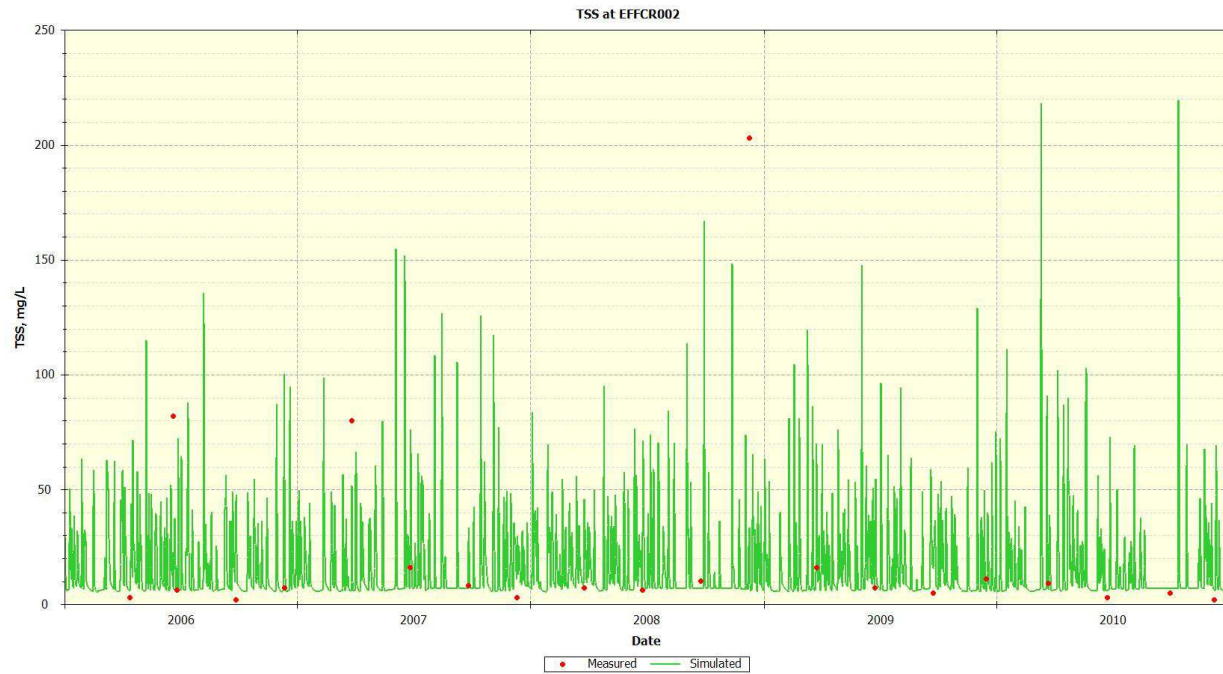


Figure A-397 Modeled vs. Observed TSS (mg/L) at EFFCR002

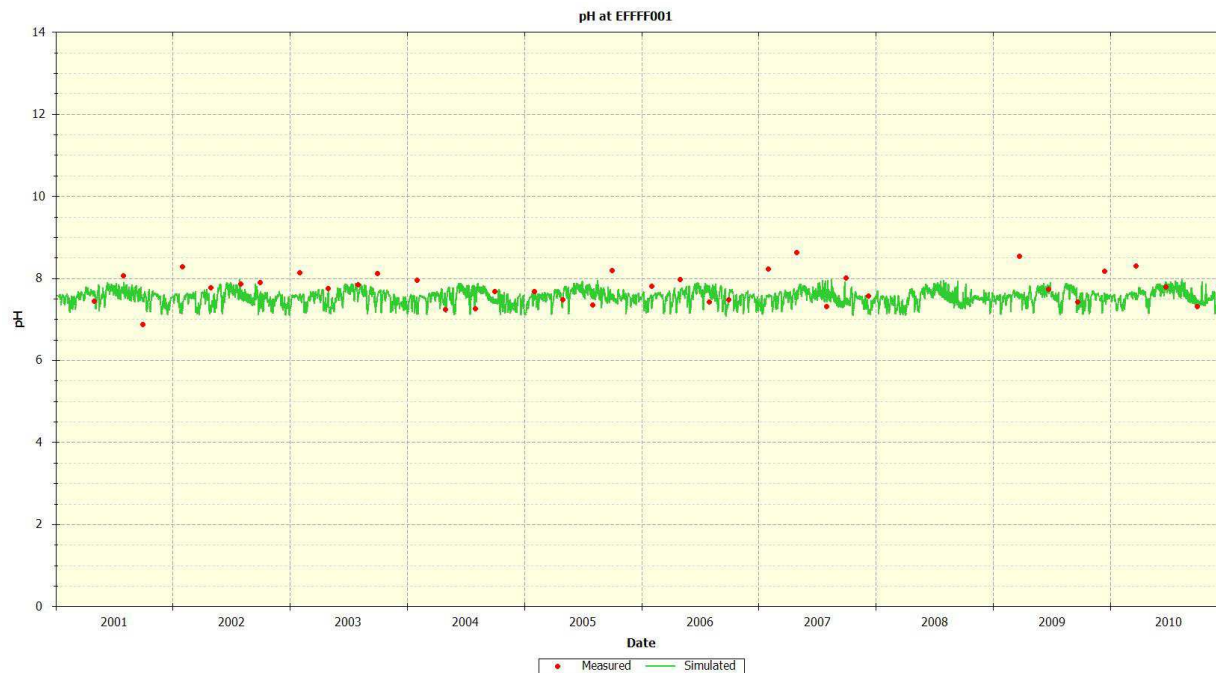


Figure A-398 Modeled vs. Observed pH at EFFFF001

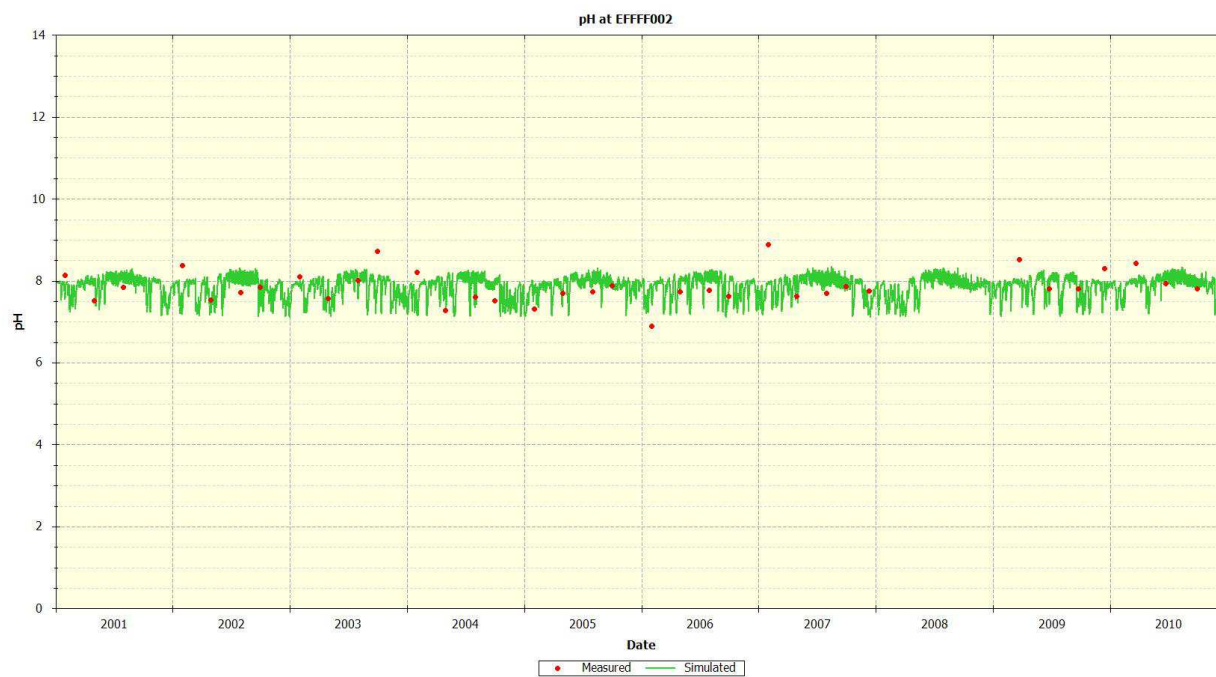


Figure A-399 Modeled vs. Observed pH at EFFFF002

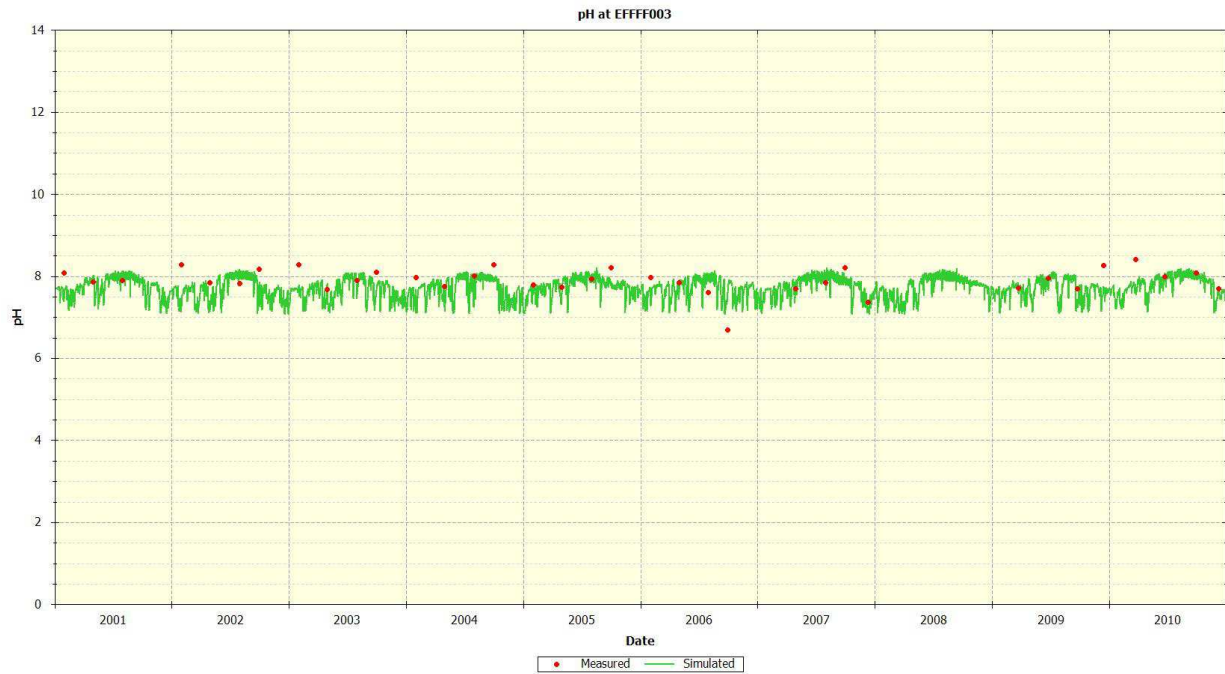


Figure A-400 Modeled vs. Observed pH at EFFFF003

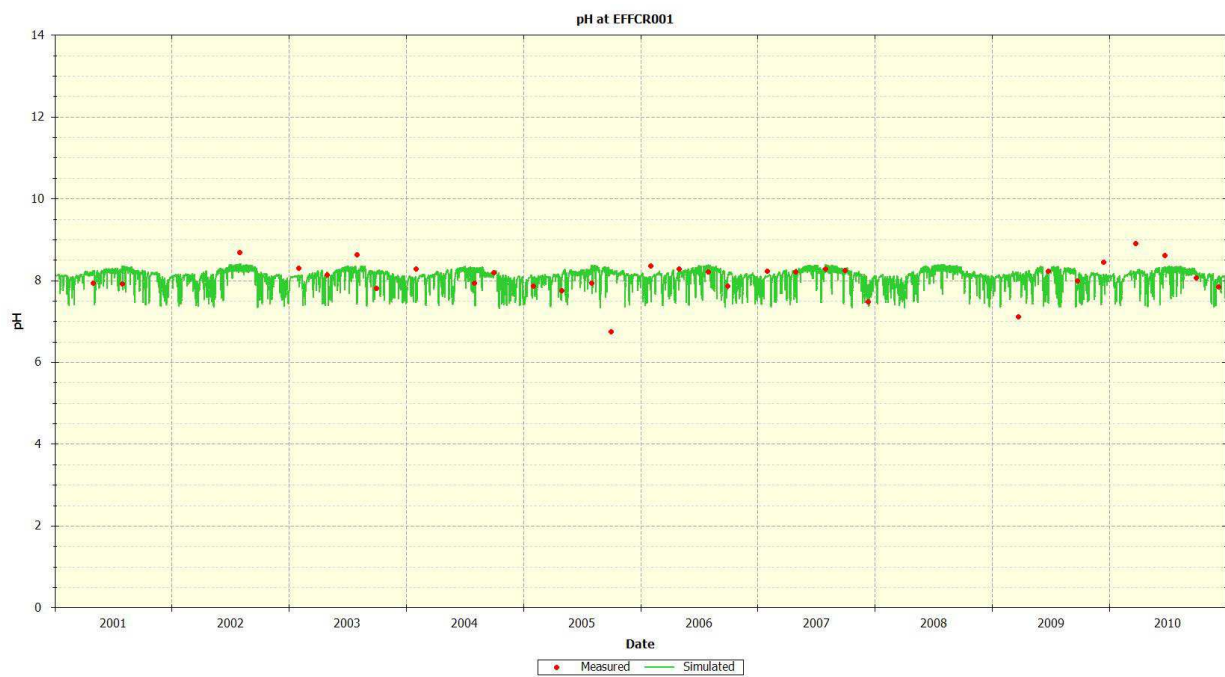


Figure A-401 Modeled vs. Observed pH at EFFCR001

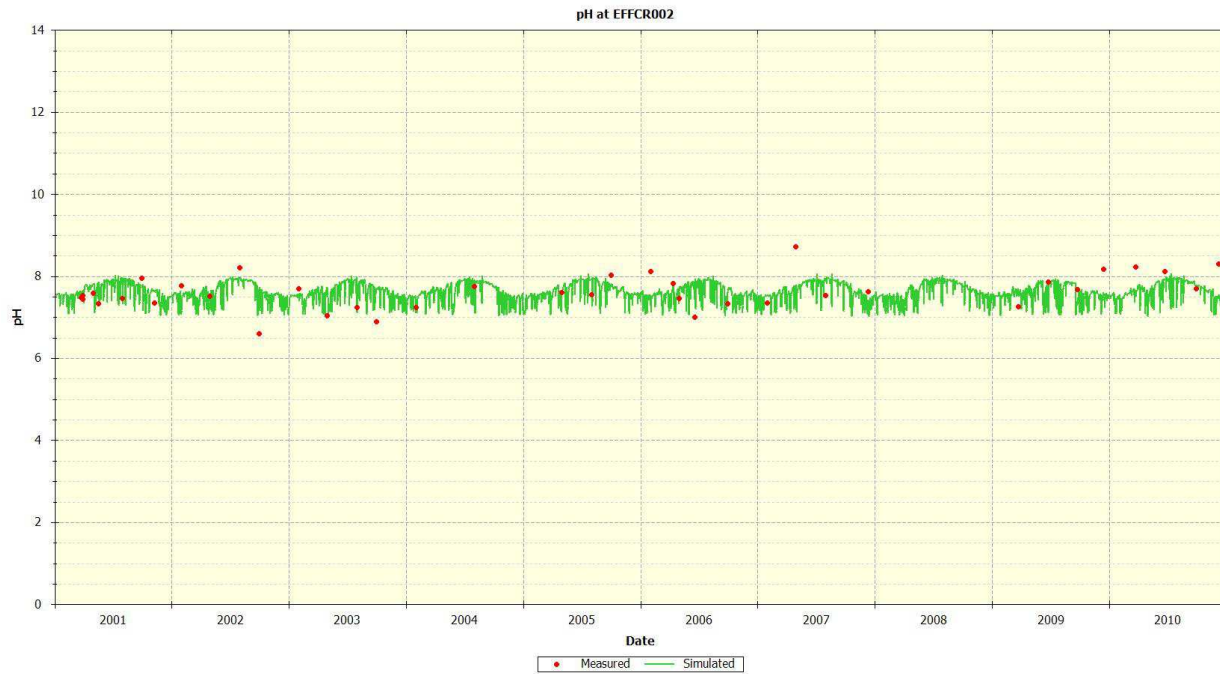


Figure A-402 Modeled vs. Observed pH at EFFCR002

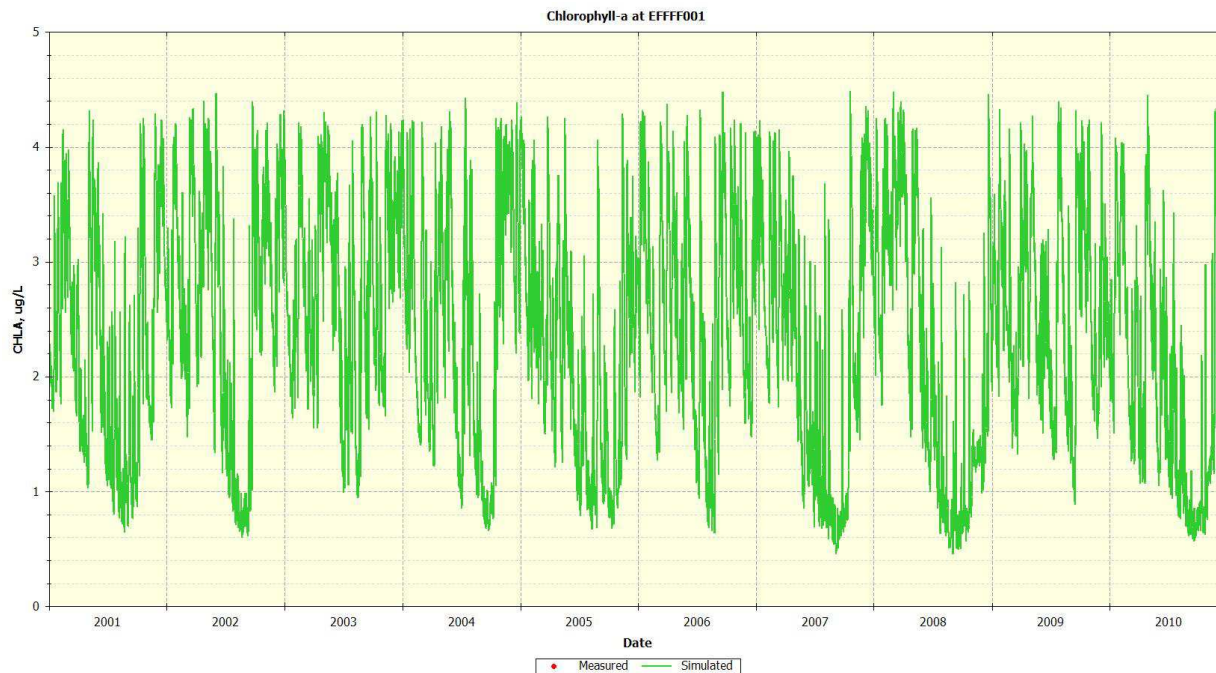


Figure A-403 Modeled Chlorophyll-a (µg/L) at EFFFF001

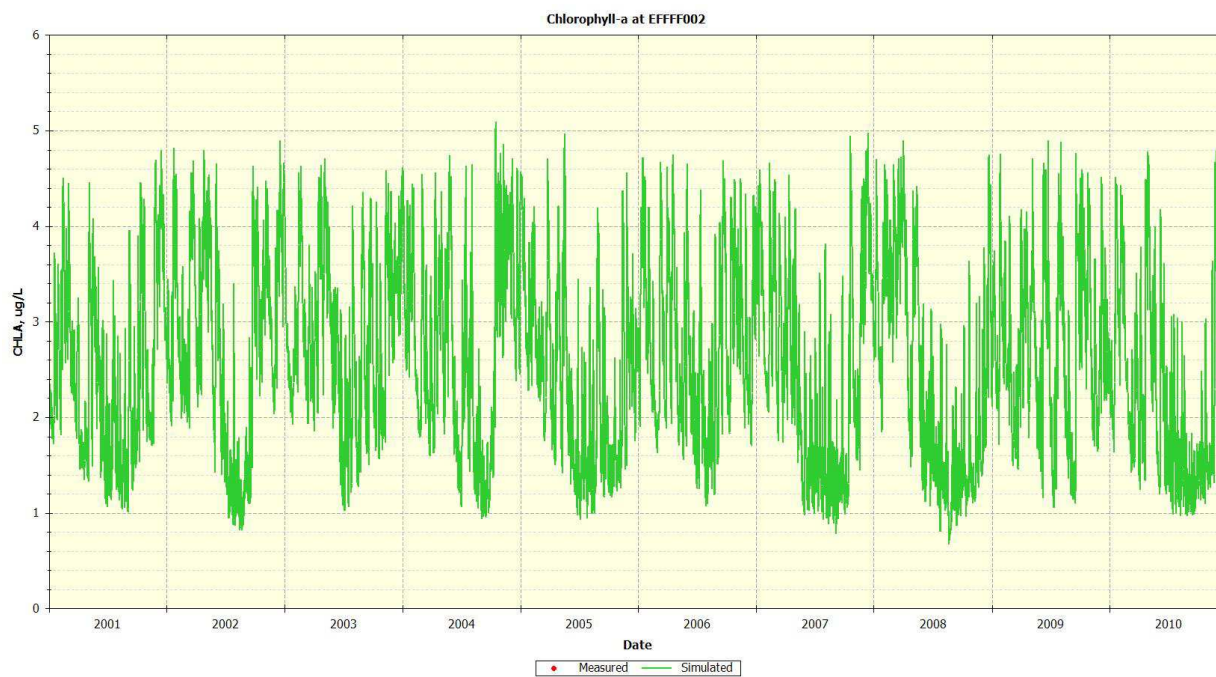


Figure A-404 Modeled Chlorophyll-a (µg/L) at EFFFF002

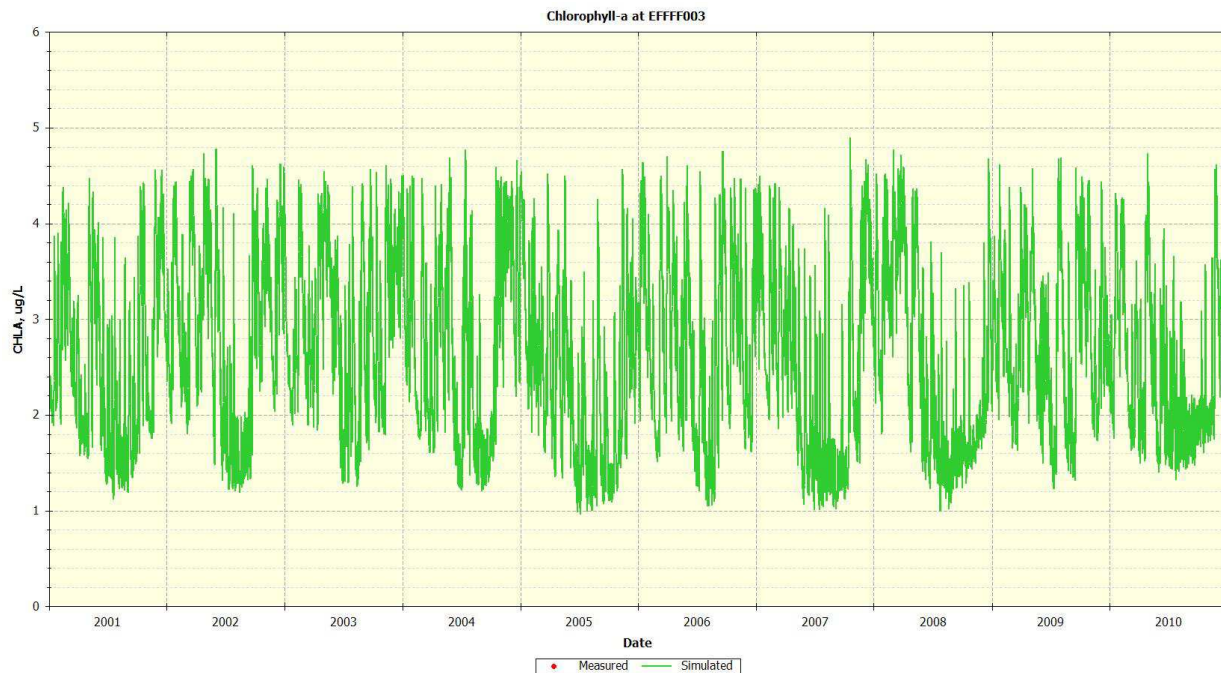


Figure A-405 Modeled Chlorophyll-a (µg/L) at EFFFF003

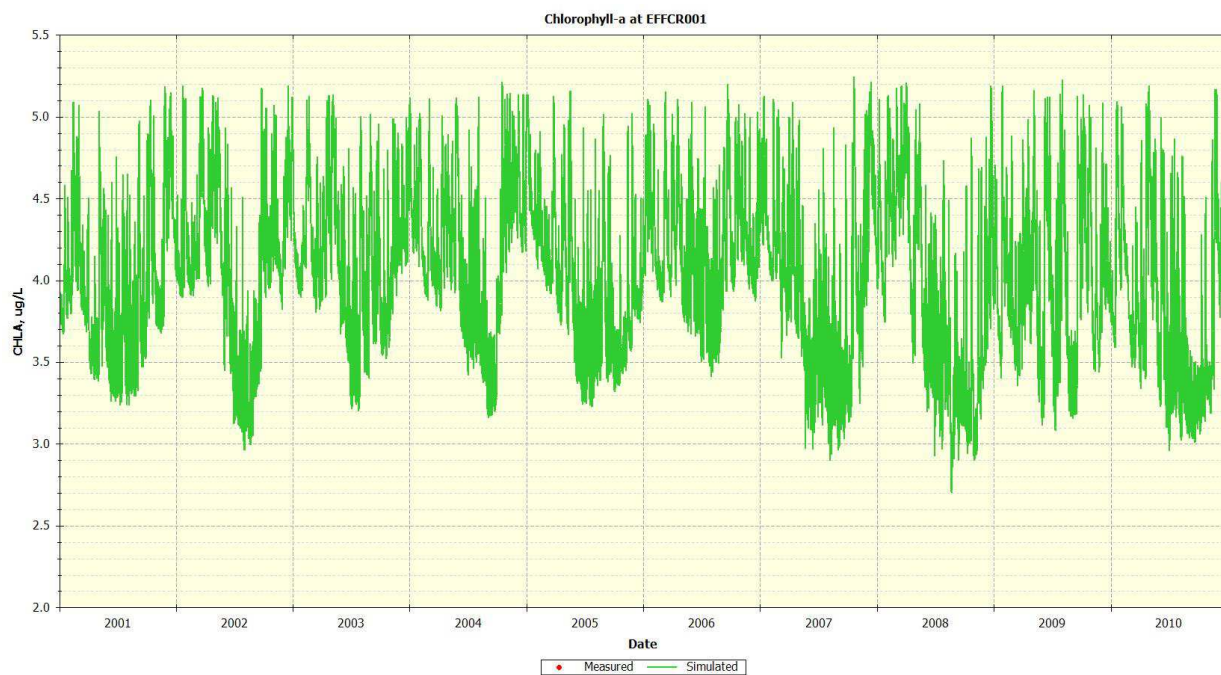


Figure A-406 Modeled Chlorophyll-a (µg/L) at EFFCR001

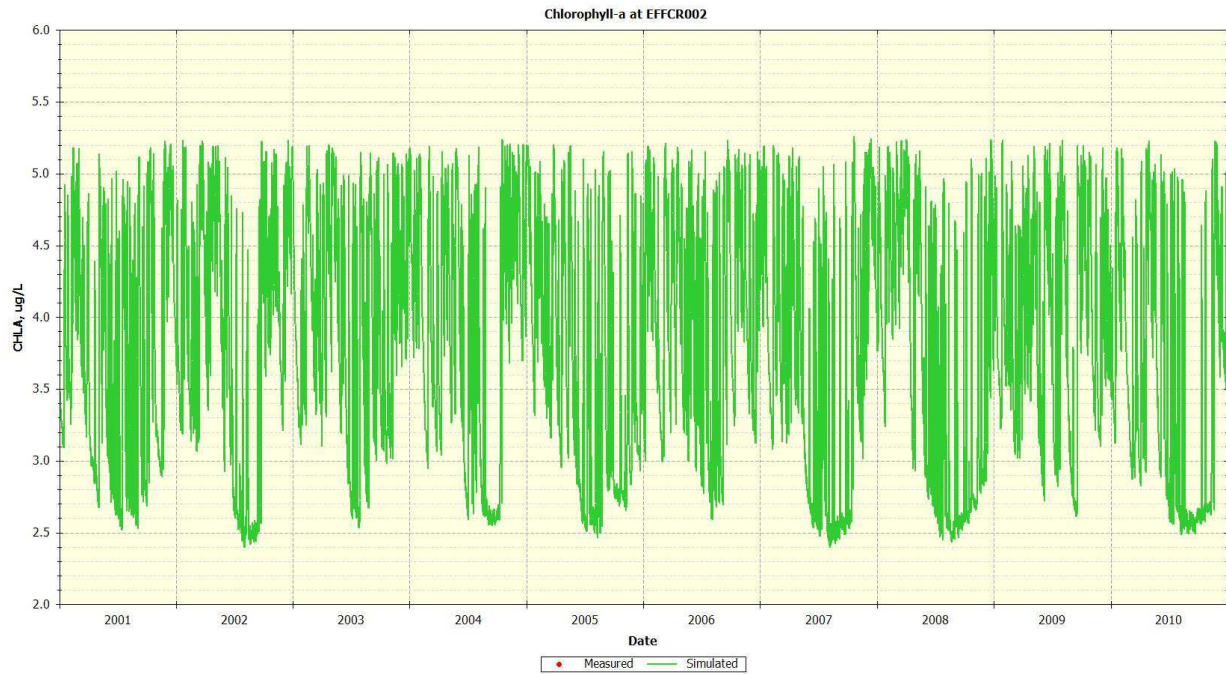


Figure A-407 Modeled Chlorophyll-a (µg/L) at EFFCR002

Table A-6 Summary Qualitative and Quantitative scores for the MSD Water Quality Validation Stations

Location: Main Stem, Floyds Fork					
Station	Station Name	Qualitative score		Quantitative score	
		TN	TP	TN	TP
EFFFF001	Floyds Fork at Ash Avenue	VG	G	11	48
EFFFF002	Floyds Fork at Bardstown Road	G	G	42	48
EFFFF003	Floyds Fork at Old Taylorsville Road	G	VG	37	27
Location: Tributaries					
EFFCR001	Chenoweth Run # 1 at Gelhaus Lane	G	G	47	31
EFFCR002	Chenoweth Run # 1 at Ruckriegal Parkway	F	F	82	77

Table A-7 Calibration Statistics for TN for MSD Water Quality Validation Stations utilized in the Floyds Fork model

USGS Station	Station Name	Simulated			Measured			Difference		
		Mean	5 %tile	95 %tile	Mean	5 %tile	95 %tile	Mean	5 %tile	95 %tile
Location : Main Stem, Floyds Fork										
EFFFF001	Floyds Fork at Ash Avenue	2.289	0.000	0.000	3.925	0.000	0.000	1.636	0.000	0.000
EFFFF002	Floyds Fork at Bardstown Road	2.706	0.000	0.000	3.584	0.000	0.000	0.878	0.000	0.000
EFFFF003	Floyds Fork at Old Taylorsville Road	2.387	0.000	0.000	2.608	0.000	0.000	0.221	0.000	0.000
Location: Tributaries										
EFFCR001	Chenoweth Run # 1 at Gelhaus Lane	8.773	0.000	0.000	8.847	0.000	0.000	0.074	0.000	0.000
EFFCR002	Chenoweth Run # 1 at Ruckriegal Parkway	4.801	1.330	19.280	0.517	0.304	1.018	-4.283	1.026	18.262

Table A-8 Calibration Statistics for TP for MSD Water Quality Validation Stations utilized in the Floyds Fork model

USGS Station	Station Name	Simulated			Measured			Difference		
		Mean	5 %tile	95 %tile	Mean	5 %tile	95 %tile	Mean	5 %tile	95 %tile
Location : Main Stem, Floyds Fork										
EFFFF001	Floyds Fork at Ash Avenue	0.280	0.036	0.804	0.489	0.090	1.568	0.209	-0.054	-0.763
EFFFF002	Floyds Fork at Bardstown Road	0.162	0.036	0.386	0.327	0.086	0.956	0.165	-0.050	-0.571
EFFFF003	Floyds Fork at Old Taylorsville Road	0.180	0.036	0.571	0.347	0.087	1.125	0.166	-0.051	-0.554
Location: Tributaries										
EFFCR001	Chenoweth Run # 1 at Gelhaus Lane	0.380	0.038	1.662	0.439	0.123	1.527	0.059	-0.084	0.135
EFFCR002	Chenoweth Run # 1 at Ruckriegal Parkway	0.218	0.036	1.215	0.029	0.019	0.054	-0.189	0.017	1.161

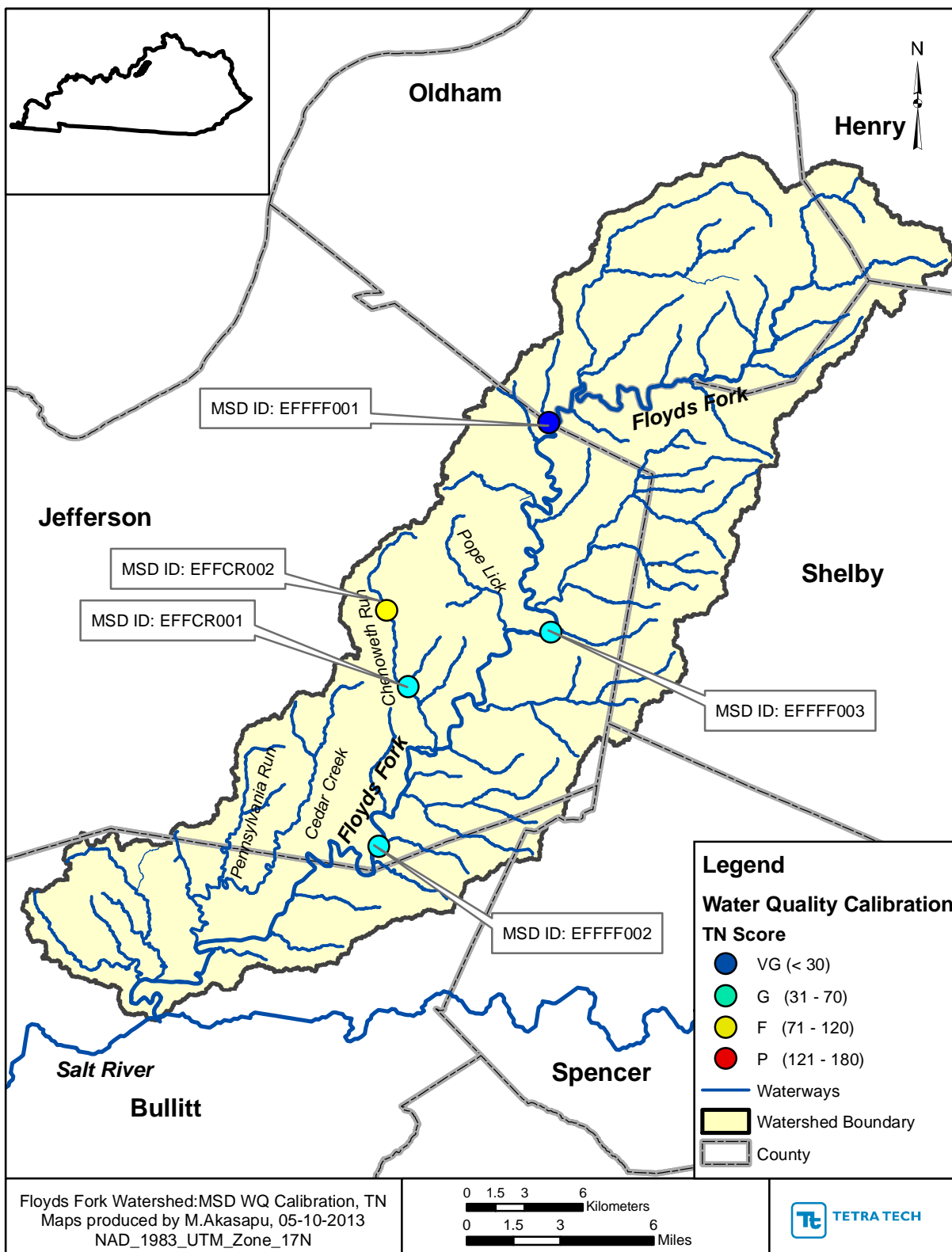


Figure A-408 MSD Water Quality for TN in the Floyds Fork Watershed

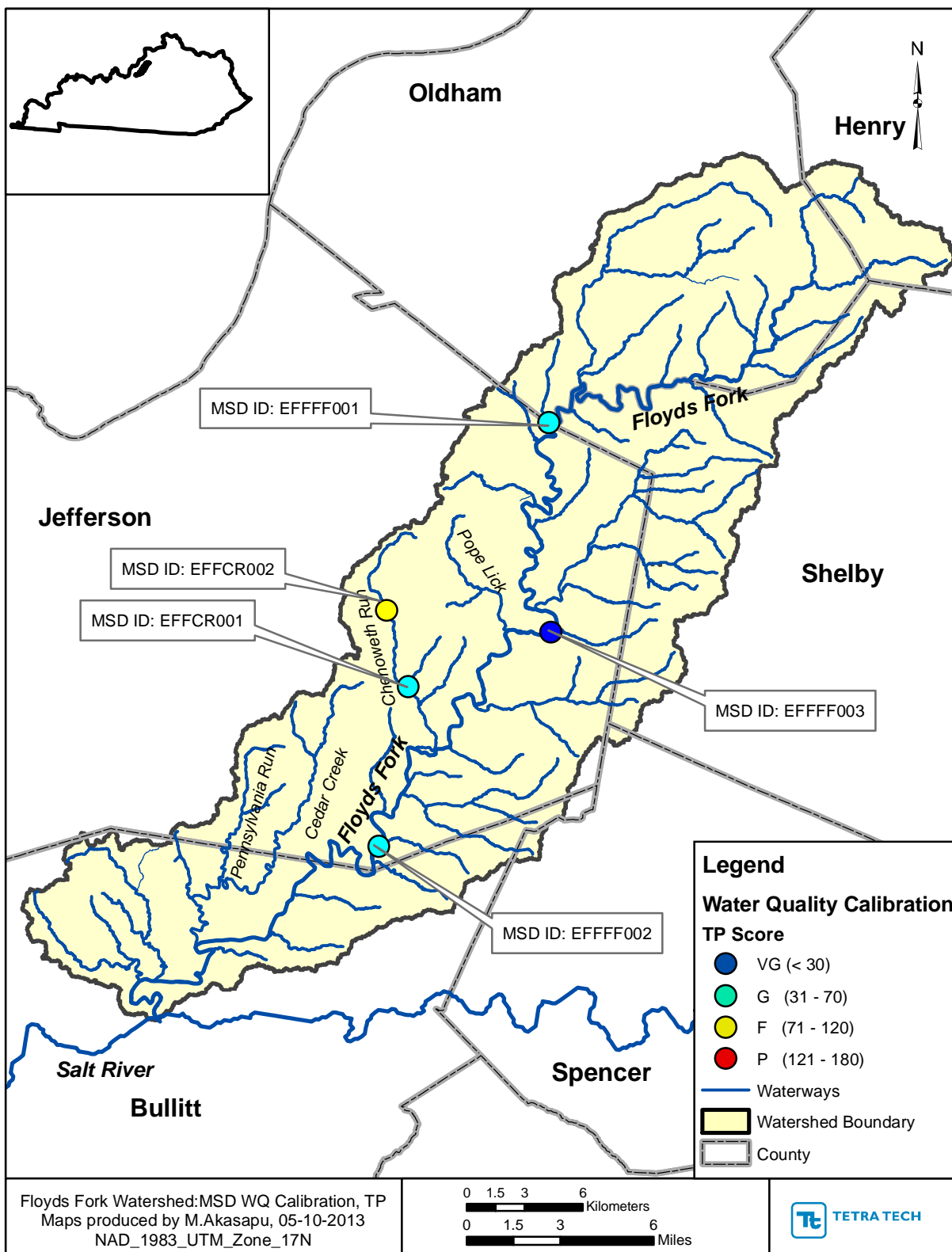


Figure A-409 MSD Water Quality for TP in the Floyds Fork Watershed